**U.S. DEPARTMENT OF COMMERCE**
**National Technical Information Service**

PB-289 551

# Water Resources Data for New York Water Year 1974. Part 2 Water Quality Records

**(U.S.) Geological Survey, Albany, NY Water Resources Div**

1975

**BIBLIOGRAPHIC DATA SHEET**

**1. Report No.** USGS/WRD/HD-78/261

**2.**

**3. Recipient's Accession No.** PB28955

**4. Title and Subtitle**

Water Resources Data for New York
Water Year 1974
Part 2. Water Quality Records

**5. Report Date** 1975

**6.**

**7. Author(s)**

**8. Performing Organization Rept. No.** USGS-WDR-NY-74-2

**9. Performing Organization Name and Address**

U.S. Geological Survey, Water Resources Division
P.O. Box 1350
343 U.S. Post Office and Court House
Albany, NY 12201

**10. Project/Task/Work Unit No.**

**11. Contract/Grant No.**

**12. Sponsoring Organization Name and Address**

U.S. Geological Survey, Water Resources Division
P.O. Box 1350
343 U.S. Post Office and Court House
Albany, NY 12201

**13. Type of Report & Period Covered** Annual - Oct. 1, 1973 to Sept. 30, 1974

**14.**

**15. Supplementary Notes**

Prepared in cooperation with the State of New York and with other agencies.

**16. Abstracts**

Water resources data for the 1974 water year for New York consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 62 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in New York.

**17. Key Words and Document Analysis. 17a. Descriptors**

*New York, *Hydrologic data, *Water quality, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses.

**17b. Identifiers/Open-Ended Terms**

**17c. COSATI Field/Group**

**18. Availability Statement**

No restriction on distribution.
This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

**19. Security Class (This Report)** UNCLASSIFIED

**20. Security Class (This Page)** UNCLASSIFIED

**21. No. of Pages** 374

**22. Price** A16-A01

PB 289551

1974

# Water Resources Data
# for
# New York
# Water Year 1974
## Part 2. Water Quality Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-74-2

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

Prepared in cooperation with the State of New York
and with other agencies

# CALENDAR FOR WATER YEAR 1974

## 1973

### OCTOBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
|  | 1 | 2 | 3 | 4 | 5 | 6 |
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### NOVEMBER

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### DECEMBER

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## 1974

### JANUARY

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| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
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### FEBRUARY

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### MARCH

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### APRIL

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### MAY

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### JUNE

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### JULY

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| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
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### AUGUST

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| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

### SEPTEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |  |  |  |  |  |

# 1974

# Water Resources Data
# for
# New York
# Water Year 1974

## Part 2. Water Quality Records

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-74-2**

**Prepared in cooperation with the State of New York**
**and with other agencies**

Prepared in cooperation with

New York State Department of Environmental Conservation
New York State Power Authority
Central New York State Parks Commission
County of Cortland, Planning Department
County of Dutchess
County of Nassau, Department of Public Works
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
City of Albany, Department of Water and Water Supply
City of New York, Board of Water Supply
City of New York, Department of Water Resources
Delaware River Basin Commission
Environmental Protection Agency

Water resources records, 1974, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
   Part 1: Surface Water Records

2. Water Resources Data for New York
   Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P. O. Box 1350
Albany, N. Y. 12201

1975

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Letters after station name
designate type of data reported
(c) - chemical
(t) - temperature
(s) - sediment

Abbreviations:
USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
EPA - Environmental Protection Agency
WQS - New York State Water Quality Surveillance

| | IDENTIFICATION NUMBERS | | | | Page |
|---|---|---|---|---|---|
| NORTH ATLANTIC SLOPE BASINS | USGS | OWDC | EPA | WQS | |
| HOUSATONIC RIVER BASIN | | | | | |
| Housatonic River: | | | | | |
| Tenmile River near Gaylordsville, Conn. (c) | 01200000 | | | 16 1002 | 20 |
| STREAMS ON LONG ISLAND | | | | | |
| Mill Neck Creek at Mill Neck (c) | 01303000 | 67699 | | | 22 |
| Carmans River at Yaphank (c) | 01305000 | 67703 | | | 23 |
| Massapequa Creek at Massapequa (c) | 01309500 | 67710 | | | 24 |
| East Meadow Brook at Freeport (c) | 01310500 | 67713 | | | 25 |
| HUDSON RIVER BASIN | | | | | |
| Hudson River: | | | | | |
| Schroon Lake (Schroon River) at Pottersville (c) | 01316500 | 61392 | | 11 P030 | 26 |
| Loon Lake near Chestertown (c) | 01316808 | 61393 | | 11 P040 | 27 |
| Friends Lake near Chestertown (c) | 01316815 | 61394 | | 11 P050 | 28 |
| Brant Lake Outlet at Brant Lake (c) | 01316895 | 61391 | | 11 P020 | 29 |
| Schroon River at Riverbank (c) | 01317000 | 61395 | | 11 1060 | 30 |
| Sacandaga River: | | | | | |
| East Branch Sacandaga River at Griffin (c) | 01319000 | 54061 | | 11 2788 | 31 |
| Sacandaga River at Hadley (c) | 01325005 | 68092 | | 11 1551 | 34 |
| Hudson River at Corinth (c) | 01325420 | 61400 | | 11 0602 | 35 |
| Hudson River at Spier Falls (c) | 01326400 | 68091 | | 11 0605 | 37 |
| Hudson River at Glens Falls (c) | 01327600 | 77696 | | 11 0580 | 39 |
| Hudson River at Hudson Falls (t) | 01327700 | 54111 | | | 41 |
| Hudson River at Fort Edward (c) | 01327750 | 68090 | | 11 0561 | 42 |
| Hudson River at Thomson (c) | 01328770 | 77701 | | 11 0015 | 44 |
| Batten Kill at Middle Falls (c) | 01329640 | 61398 | | 11 1501 | 46 |
| Kayaderosseras Creek near West Milton (t) | 01330500 | 54062 | | | 47 |
| Kayaderosseras Creek at Saratoga Springs (c) | 01330770 | 77698 | | 11 3320 | 48 |
| Fish Creek at Saratoga Springs (c) | 01330865 | 77699 | | 11 1311 | 50 |
| Fish Creek at Schuylerville (c) | 01330915 | 77700 | | 11 1301 | 52 |
| Hudson River at Stillwater (c) | 01331095 | 68088 | | 11 0005 | 54 |
| Hoosic River near North Pownal, Vt. (c) | 01333350 | 67090 | 50 1479 | 11 1432 | 56 |
| Hoosic River near Stillwater (c) | 01335400 | | | 11 1402 | 58 |
| Hudson River at Waterford (c) | 01335770 | 61387 | 74WTM02 | 11 0001 | 60 |
| Hudson River at monitor at Waterford (c) | 01335771 | 68089 | | 11 0002 | 63 |
| Mohawk River below Delta Dam, near Rome (t) | 01336000 | 54063 | | | 65 |
| Mohawk River above Little Falls (c) | 01346495 | 77703 | | 12 0350 | 66 |
| East Canada Creek near St. Johnsville (c) | 01348002 | 61404 | | 12 1310 | 68 |
| Mohawk River at Lock 15 at Fort Plain (c) | 01348795 | 77704 | | 12 0330 | 69 |
| Cayadutta Creek at Fonda (c) | 01349520 | 68087 | | 12 1301 | 71 |
| Mohawk River at Fonda (c) | 01349527 | 68084 | | 12 0305 | 73 |
| Schoharie Creek at North Blenheim (t) | 01350180 | 82733 | | | 75 |
| Schoharie Creek at Fort Hunter (c) | 01353995 | 61401 | | 12 1251 | 77 |
| Mohawk River at Tribes Hill (c) | 01354000 | 77705 | 74WTM05 | 12 0320 | 78 |
| Mohawk River at Lock 10 at Cranesville (c) | 01354160 | 61402 | 74WTM06 | 12 0300 | 81 |
| Mohawk River at Schenectady (c) | 01354490 | 61382 | 74WTM04 | 12 0003 | 84 |
| Mohawk River at Vischer Ferry Dam (t) | 01356000 | 54115 | | 12 0003 | 87 |
| Mohawk River at Crescent Dam (c) | 01357000 | 61390 | 74WTM03 | 12 0002 | 89 |
| Hudson River at Green Island (ct) | 01358000 | 54065 | | 13 0008 | 92 |
| Hudson River at Glenmont (c) | 01359560 | 61456 | 74WTM01 | 13 0200 | 95 |
| Hudson River at Coeymans (c) | 01359803 | 61455 | | 13 0180 | 98 |
| Hudson River at Catskill (c) | 01361450 | 61454 | | 13 0140 | 100 |
| Esopus Creek at Shandaken (ct) | 01362198 | 54068 | | 13 1128 | 102 |
| Esopus Creek at Saugerties (c) | 01364501 | | | 13 1600 | 106 |
| Hudson River at Kingston Point (c) | 01364950 | 77082 | | 13 0300 | 108 |
| Rondout Creek: | | | | | |
| Wallkill River near Unionville (c) | 01368000 | 51139 | | | 110 |
| Wallkill River near Rosendale (c) | 01372003 | 61452 | | 13 2070 | 111 |
| Rondout Creek at Eddyville (c) | 01372005 | 68074 | | 13 1071 | 113 |
| Hudson River near Poughkeepsie (ct) | 01372043 | 54116 | | 13 0103 | 115 |
| Wappinger Creek near Wappingers Falls (c) | 01372500 | 54071 | | 13 1030 | 121 |
| Hudson River near Chelsea (c) | 01372550 | 61451 | | 13 0660 | 124 |
| Hudson River at Beacon (c) | 01372575 | 68075 | | 13 0258 | 126 |
| Fishkill Creek at Hopewell Junction (t) | 01372800 | 54072 | | | 128 |
| Fishkill Creek at Beacon (ct) | 01373500 | 54074 | | 13 1040 | 129 |
| Moodna Creek near New Windsor (c) | 01373860 | 68073 | | 13 1252 | 132 |
| Hudson River at Bear Mountain (c) | 01374085 | 68081 | | 13 0250 | 134 |
| Hudson River at Verplanck (c) | 01374350 | 68076 | | 13 0256 | 136 |
| Hudson River at Piermont (c) | 01376269 | 68079 | | 13 0254 | 138 |
| Hudson River at Yonkers (c) | 01376510 | 68080 | | 13 0251 | 140 |
| HACKENSACK RIVER BASIN | | | | | |
| Hackensack River near Orangeburg (c) | 01376905 | 61460 | | 15 0001 | 142 |
| DELAWARE RIVER BASIN | | | | | |
| East Branch Delaware River at Margaretville (c) | 01413500 | 81626 | | | 144 |
| East Branch Delaware River at Downsville (c) | 01417000 | 81627 | | | 146 |
| Beaver Kill at Cooks Falls (c) | 01420500 | 54076 | | 14 2108 | 148 |
| East Branch Delaware River at Fishs Eddy (ct) | 01421000 | 65360 | | 14 1050 | 151 |
| East Branch Delaware River at Hancock (c) | 01421500 | 74913 | | | 155 |
| West Branch Delaware River above Walton (c) | 01422735 | 81669 | | | 158 |
| West Branch Delaware River at Beerston (c) | 01423010 | 81670 | | | 160 |
| West Branch Delaware River at Stilesville (ct) | 01425000 | 54077 | | | 162 |
| Oquaga Creek at Arctic (c) | 01425665 | | | | 165 |
| Oquaga Creek tributary at Arctic (c) | 01425670 | | | | 166 |
| Oquaga Creek near North Sanford (ct) | 01425675 | 82228 | | | 167 |
| West Branch Delaware River at Hale Eddy (ct) | 01426500 | 65359 | | 14 0080 | 169 |
| West Branch Delaware River at Hancock (c) | 01427000 | 81875 | | | 173 |

| | IDENTIFICATION NUMBERS | | | | Page |
|---|---|---|---|---|---|
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| NORTH ATLANTIC SLOPE BASINS--Continued | | | | | |
| DELAWARE RIVER BASIN--Continued | | | | | |
| Delaware River at Lordville (t) | 01427207 | 65361 | | | 175 |
| Delaware River near Callicoon (t) | 01427405 | 65358 | | | 176 |
| Callicoon Creek at Callicoon (c) | 01427500 | 81628 | | | 178 |
| Delaware River at Harrowsburg (c) | 01427750 | | | | 180 |
| Delaware River above Lackawaxen River near Barryville (t) | 01428500 | 65357 | | | 182 |
| Lackawaxen River at Hawley, Pa. (c) | 01431500 | 69889 | | | 183 |
| Wallenpaupack Creek at Ledgedale, Pa. (c) | 01431670 | | | | 186 |
| Lackawaxen River at mouth at Lackawaxen, Pa. (c) | 01432119 | | | | 188 |
| Delaware River at Barryville (c) | 01432160 | 65363 | | | 190 |
| Mongaup River at Mongaup Valley (c) | 01432900 | 74802 | | | 192 |
| Mongaup River below Swinging Bridge Reservoir (c) | 01433005 | 81671 | | | 195 |
| Mongaup River near Mongaup (c) | 01433500 | 81629 | | | 198 |
| Delaware River at Port Jervis (cts) | 01434000 | 61457 | | 14 0010 | 200 |
| Neversink River near Claryville (c) | 01435000 | 80860 | | | 207 |
| Neversink River at Neversink (c) | 01436000 | 81631 | | | 209 |
| Neversink River at Port Jervis (c) | 01438000 | 68072 | | 14 1032 | 211 |
| SUSQUEHANNA RIVER BASIN | | | | | |
| Susquehanna River at Unadilla (c) | 01500500 | 54079 | | 06 0140 | 216 |
| Susquehanna River at Conklin (c) | 01503000 | 54082 | SU83 | | 217 |
| Chenango River: | | | | | |
| East Branch Tioughnioga River (head of Tioughnioga River): | | | | | |
| West Branch Tioughnioga River: | | | | | |
| Factory Brook at Homer (c) | 01508800 | 85350 | | | 219 |
| West Branch Tioughnioga River at Homer (c) | 01508803 | 82231 | | | 221 |
| Tioughnioga River at Cortland (t) | 01509000 | 54085 | | | 222 |
| Susquehanna River at C.F.J. Memorial Bridge at Johnson City (c) | 01513107 | 67096 | SU82 | | 223 |
| Susquehanna River at Johnson City (t) | 01513110 | 54086 | | | 225 |
| Tioga River (head of Chemung River) at Lindley (cts) | 01520500 | 54089 | | 05 1120 | 226 |
| Cohocton River: | | | | | |
| Fivemile Creek near Kanona (c) | 01528000 | 54092 | | 05 2098 | 229 |
| Chemung River at Wellsburg (c) | 01530900 | 67097 | SU81 | | 232 |
| OHIO RIVER BASIN | | | | | |
| Allegheny River (head of Ohio River): | | | | | |
| Conewango Creek at Waterboro (c) | 03013000 | 54096 | | 02 1018 | 234 |
| ST. LAWRENCE RIVER BASIN | | | | | |
| Lake Erie: | | | | | |
| STREAMS TRIBUTARY TO LAKE ERIE | | | | | |
| Buffalo Creek (Head of Buffalo River) at Gardenville (c) | 04214500 | 54097 | | 01 1108 | 237 |
| STREAMS TRIBUTARY TO NIAGARA RIVER | | | | | |
| Tonawanda Creek at Millersport (c) | 04218030 | | 363012 | | 240 |
| Niagara River (Lake Ontario) at Fort Niagara (c) | 04219640 | 85487 | | 01 0001 | 242 |
| Lake Ontario: | | | | | |
| STREAMS TRIBUTARY TO LAKE ONTARIO | | | | | |
| Eighteenmile Creek near Newfane (c) | 04219765 | 73495 | 355600 | | 246 |
| Johnson Creek at Knowlesville (c) | 04219915 | 73496 | 355612 | | 248 |
| Genesee River: | | | | | |
| Black Creek at Churchville (c) | 04231000 | 54100 | | 04 1108 | 250 |
| Genesee River at Rochester (t) | 04232000 | 54101 | | 04 0003 | 253 |
| Genesee River at Charlotte Docks at Rochester (c) | 04232006 | | | 04 0001 | 254 |
| Seneca River (head of Oswego River): | | | | | |
| Owasco Outlet below Auburn (c) | 04235505 | 69073 | 334305 | | 257 |
| Seneca River at Baldwinsville (t) | 04237500 | 54102 | | 07 1020 | 259 |
| Salmon River below Pulaski (c) | 04250506 | 73497 | 355905 | | 260 |
| Black River at Forestport (c) | 04250997 | 73498 | 355138 | | 262 |
| Black River at Croig (c) | 04254965 | 61455 | | 08 0017 | 264 |
| Independendence River at Donnattsburg (t) | 04256000 | 54103 | | | 266 |
| Beaver River at Moshier Falls (t) | 04257150 | 54120 | | | 267 |
| Black River above Carthage (c) | 04258710 | 73499 | 355114 | | 268 |
| Black River below Carthage (c) | 04258730 | 73500 | 355102 | | 270 |
| Black River at Huntingtonville (t) | 04259980 | 67093 | | | 272 |
| Black River at Watertown (c) | 04260500 | 54104 | | 08 0008 | 273 |
| Black River below Watertown (c) | 04260505 | 73501 | 355112 | | 276 |
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| Oswegatchie River at Gouverneur (c) | 04262650 | 67094 | 355507 | | 280 |
| Oswegatchie River at Ogdensburg (c) | 04263990 | 61442 | | 09 1300 | 282 |
| St. Lawrence River at Cornwall, Ontario-near Massena, N.Y. (ct) | 04264331 | 54108 | | | 284 |
| Grass River above Massena (c) | 04265437 | 82731 | | 09 1203 | 288 |
| Grass River below Massena Center (c) | 04265452 | 82732 | | 09 1206 | 290 |
| Raquette River at Massena Springs (c) | 04268230 | 61443 | | 09 1105 | 292 |
| St. Regis River: | | | | | |
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| Lake Champlain (Richelieu River main stem): | | | | | |
| Saranac River above Plattsburgh (c) | 04273400 | 61426 | | 10 1010 | 297 |
| La Chute at State Highway 22 at Ticonderoga (c) | 04279015 | 68093 | | 10 1050 | 298 |
| Lake Champlain (East Bay) near Whitehall (c) | 04294402 | 67087 | 831056 | | 300 |
| Lake Champlain near Ticonderoga (c) | 04294408 | 67088 | 831057 | | 302 |
| Lake Champlain near Crown Point (c) | 04294410 | 67089 | 831058 | | 304 |
| Lake Champlain near Port Henry (c) | 04294412 | | | 10 L030 | 306 |
| Richelieu River (Lake Champlain) at Rouses Point (c) | 04295000 | 61435 | | 10 L002 | 307 |
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| near Canton (c) | | | | | 355 |

# WATER RESOURCES DATA FOR NEW YORK, 1974

## Part 2. Water Quality Records

## INTRODUCTION

Water resources data for the 1974 water year for New York include records of data for the chemical and physical characteristics of surface, ground, and precipitation water. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of R. J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis.

## COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreements with the following organizations:

New York State Department of Environmental Conservation, J. L. Biggane, commissioner, succeeded by Ogden Reid
New York State Power Authority, J. A. Fitzpatrick, chairman
Central New York State Parks Commission, Samuel Perry, regional administrator
County of Cortland, Planning Department, T. E. Zollendeck, planning director
County of Dutchess, W. H. Bartles, county executive
County of Nassau, Department of Public Works, H. J. Plock, Jr., commissioner
County of Suffolk, Department of Environmental Control, J. M. Flynn, commissioner
County of Suffolk, Water Authority, W. C. Hazlitt, chairman
City of Albany, Department of Water and Water Supply, Kenneth DeLisle, commissioner
City of New York, Board of Water Supply, Martin Hauptman, chief engineer
City of New York, Department of Water Resources, Charles Samowitz, commissioner, Abraham Groopman, chief engineer
Delaware River Basin Commission, J. F. Wright, executive director

Assistance in the form of funds was given by the Environmental Protection Agency.

The following organizations supplied water-temperature records:

The municipalities of Cortland and Watertown, Chase Bag Company, New York State Electric and Gas Corporation, Niagara Mohawk Power Corporation, Rochester Gas and Electric Corporation, Texaco Incorporated, Power Authority of the State of New York, New York State Department of Transportation, and Corps of Engineers, U.S. Army.

## DEFINITION OF TERMS AND ABBREVIATIONS

Terms related to water-quality and hydrologic data, as used in this report are defined below. See also table 4 for converting English units to International System of units (SI) on the back of the front cover.

Acre-foot (AC-FT, ac-ft) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metalic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by microorganisms, such as bacteria.

Bottom deposits (bottom material) The sediment mixture of which the streambed is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inches from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Daily mean discharge is the mean discharge for one day.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per kilogram (UG/KG, ug/kg) A microgram is equal to 0.000001 gram or $10^{-6}$ gram; a kilogram is approximately the mass of a litre of water at 4°C above the freezing point (one kilogram equals 1,000 grams); therefore, 1 ug/kg = $10^{-6}$ grams/1,000 grams.

Micrograms per litre (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per liter is equivalent to one milligram per litre.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1. Concentration of suspended sediment is also expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

> Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multi-celled and are counted according to the number of contained cells per sample volume, usually millilitres (ml) or litres (l).

Table 1.--Factors for conversion of chemical constituents in milligrams per litre to milliequivalents per litre

| Ion | Multiply by | Ion | Multiply by |
|---|---|---|---|
| Aluminum ($Al^{+3}$) | 0.11119 | Iodide ($I^{-1}$) | 0.00788 |
| Ammonia as $NH_4^{+1}$ | .05544 | Iron ($Fe^{+3}$) | .05372 |
| Barium ($Ba^{+2}$) | .01456 | Lead ($Pb^{+2}$) | .00965 |
| Bicarbonate ($HCO_3^{-1}$) | .01639 | Lithium ($Li^{+1}$) | .14411 |
| Bromide ($Br^{-1}$) | .01251 | Magnesium ($Mg^{+2}$) | .08226 |
| Calcium ($Ca^{+2}$) | .04990 | Manganese ($Mn^{+2}$) | .03640 |
| Carbonate ($CO_3^{-2}$) | .03333 | Nickel ($Ni^{+2}$) | .03406 |
| Chloride ($Cl^{-1}$) | .02821 | Nitrate ($NO_3^{-1}$) | .01613 |
| Chromium ($Cr^{+6}$) | .11539 | Nitrite ($NO_2^{-1}$) | .02174 |
| Cobalt ($Co^{+2}$) | .03394 | Phosphate ($PO_4^{-3}$) | .03159 |
| Copper ($Cu^{+2}$) | .03148 | Potassium ($K^{+1}$) | .02557 |
| Cyanide ($CN^{-1}$) | .03844 | Sodium ($Na^{+1}$) | .04350 |
| Fluoride ($F^{-1}$) | .05264 | Strontium ($Sr^{+2}$) | .02283 |
| Hydrogen ($H^{+1}$) | .99209 | Sulfate ($SO_4^{-2}$) | .02082 |
| Hydroxide ($OH^{-1}$) | .05880 | Zinc ($Zn^{+2}$) | .03060 |

To convert micrograms per litre, multiply by factor and divide by 1,000.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square metres ($m^2$), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually millilitres (ml) or liters (l). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Pesticides include insecticides and herbicides.

Insecticides are substances or a mixture of substances intended to control, destroy, or repel insects.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation.

PCB (Polychlorinated biphenyls) Industrial chemicals composed of mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in chemical structure to organochloride insecticides.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of typed, numbers, weight, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Picocurie (PC, pCi) is one trillionth ($1 \times 10^{-12}$) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields $3.7 \times 10^{10}$ radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Sediment is the solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per acre-foot indicated the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which included 9 of the 12 months. See calendar on back of front cover. Thus, the year ending September 30, 1974, is called the "1974 water year."

## ARRANGEMENT OF DATA AND IDENTIFICATION NUMBERS

Data in this report are divided into three groups: quality of surface water, of ground water, and of precipitation.

### Surface-Water Quality Data

Surface-water quality data collected on a regular or continual basis are listed first. These are reported in downstream order along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main stream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention; each indention represents one rank. The general location of the listed stations are on Plates 1 and 1A at the back of the report. Data for partial-record and miscellaneous surface-water sites are placed in downstream order following the first section.

As an added means of identification, a number has been assigned for each surface-water location where determinations of water quality have been made. The numbers increase with the standard downstream order of listing gaging stations. The numbering system consists of eight digits; for example, 01330000. The first two digits identify the Part or Major basin used by the Geological Survey for reporting hydrologic data. The remaining six digits represent the position of the location in the standard downstream order listing the stations within each of the Parts. The assigned numbers are in increasing numerical order but are not consecutive. They are selected from the complete 8-digit number scale so that intervening numbers will be available for future assignment to new locations.

The Geological Survey identification numbers are cross-referenced in the list of Water-Quality Stations on pages V-VI, with identification numbers assigned by the Federal Environmental Protection Agency and the New York State Department of Environmental Conservation, Water Quality Surveillance for stations in their networks and by the Office of Water Data Coordination for their catalog of Information on Water Data.

## Ground-Water Quality Data

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 13 digits of the well number are the coordinates of the southeast corner of the 1-second grid in which the well is located. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote the degrees, minutes, and seconds of longitude. If the well site is directly on the dividing line of the grid, the coordinates are those of the intersecting line south of the point on a vertical line or east of the point on a horizontal line. (See fig. 1.) The last 2 digits of the well number are sequential numbers for wells within the 1-second grid. The first well in the 1-second grid from which a record is obtained is given the number 1. Each subsequent well is numbered in the order records were obtained. The system provides the geographic location of the well and a unique number for each well.

A local well-numbering system is also used for wells on Long Island and New York City. All wells are assigned consecutive numbers within each County.

Ground-water quality data are grouped alphabetically by county and by well number either local or national.

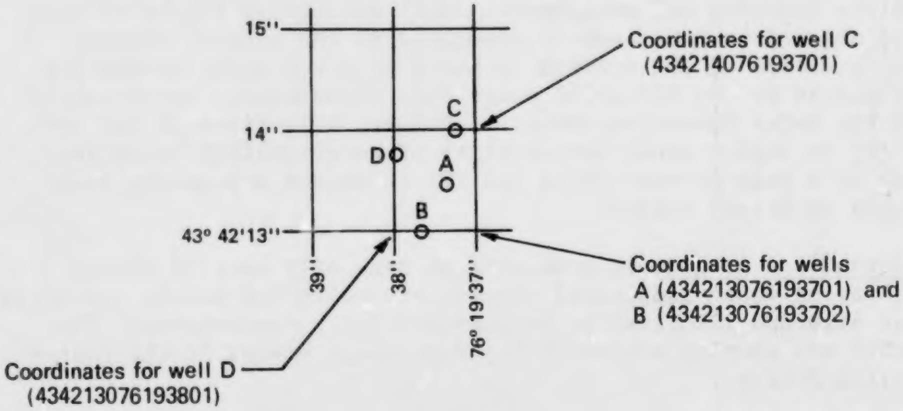

Figure 1.--Well location system.

## Precipitation Quality Data

Chemical quality of precipitation data are reported for seven stations in New York and for one station just over the border in Pennsylvania. The arrangement of the stations is according to the downstream order of the basins. Within the basin, the order of reporting is by latitude and longitude.

## SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variablility of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966, p. 272). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in micrograms per litre, radium as radium - 226 in picocuries per litre, gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre. Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

## EXPLANATION OF WATER QUALITY DATA

### Collection and Examination of Data

Many surface-water samples for analyses are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New York have been released in the report, "Water Resources Data for New York, 1974, Part 1. Surface Water Records." The water discharge reported with analyses in this report is the instantaneous water discharge at the time of sampling. Instantaneous water discharge is determined from the stage-discharge relationship at gaging stations or by measurement at the time of sampling.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and/or other pertinent data are given in the table containing the chemical analyses of ground water.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October, 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 2.

In October, 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," and table 4 for converting English units to SI units.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*

| °C | °F | °C | °F | °C | °F | °C | °F |
|---|---|---|---|---|---|---|---|
| 0.0 | 32 | 10.0 | 50 | 20.0 | 68 | 30.0 | 86 |
| 0.5 | 33 | 10.5 | 51 | 20.5 | 69 | 30.5 | 87 |
| 1.0 | 34 | 11.0 | 52 | 21.0 | 70 | 31.0 | 88 |
| 1.5 | 35 | 11.5 | 53 | 21.5 | 71 | 31.5 | 89 |
| 2.0 | 36 | 12.0 | 54 | 22.0 | 72 | 32.0 | 90 |
| 2.5 | 36 | 12.5 | 54 | 22.5 | 72 | 32.5 | 90 |
| 3.0 | 37 | 13.0 | 55 | 23.0 | 73 | 33.0 | 91 |
| 3.5 | 38 | 13.5 | 56 | 23.5 | 74 | 33.5 | 92 |
| 4.0 | 39 | 14.0 | 57 | 24.0 | 75 | 34.0 | 93 |
| 4.5 | 40 | 14.5 | 58 | 24.5 | 76 | 34.5 | 94 |
| 5.0 | 41 | 15.0 | 59 | 25.0 | 77 | 35.0 | 95 |
| 5.5 | 42 | 15.5 | 60 | 25.5 | 78 | 35.5 | 96 |
| 6.0 | 43 | 16.0 | 61 | 26.0 | 79 | 36.0 | 97 |
| 6.5 | 44 | 16.5 | 62 | 26.5 | 80 | 36.5 | 98 |
| 7.0 | 45 | 17.0 | 63 | 27.0 | 81 | 37.0 | 99 |
| 7.5 | 45 | 17.5 | 63 | 27.5 | 81 | 37.5 | 99 |
| 8.0 | 46 | 18.0 | 64 | 28.0 | 82 | 38.0 | 100 |
| 8.5 | 47 | 18.5 | 65 | 28.5 | 83 | 38.5 | 101 |
| 9.0 | 48 | 19.0 | 66 | 29.0 | 84 | 39.0 | 102 |
| 9.5 | 49 | 19.5 | 67 | 29.5 | 85 | 39.5 | 103 |

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

## Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximim and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

## Temperature

Water temperatures at the time of sample collection are reported for many of the surface-water samples.

At several stations local observers measure the water temperature once or twice daily. These water temperatures are measured at about the same time each day so that the data will reflect long-term rather than diurnal variations in water temperature. Most large streams have small diurnal variation in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C.

In addition, at several stations instruments are installed which record the water temperature continuously or hourly values are punched on paper tape. Maximum and minimum temperatures for each day are obtained from these records.

## Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. At those stations where daily mean concentration and daily suspended sediment discharge are computed samples are commonly collected at a fixed point in the stream cross section. Periodically, samples are collected at several verticals in the cross section to determine the adjustment coefficient required (if any) to determine the mean concentration in the whole cross section of the stream.

During periods of rapidly changing flow or rapidly changing concentration, samples often are collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, the daily sediment discharge was estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and sediment discharge for other periods of similar water discharge.

At stations where only periodical suspended-sediment data is reported samples were collected at several verticals in stream cross sections. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relationships between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

## OTHER AVAILABLE DATA

In addition to most of the data in this report, which represent only those stations for which water samples were analysed by the U.S. Geological Survey, other data are available from WQS (Water Quality Surveillance) of the New York State Department of Environmental Conservation. Their Water Quality Data Library includes prior records for many of the stations in this report, data for additional stations operated by or for WQS, and data contributed by other Federal, State, and local agencies, and private industries. Table 5 is a list of stations operated by or for WQS. Water samples collected at these stations during the 1974 water year were analysed by agencies other than the U.S. Geological Survey.

All data in the Water Quality Data Library are available as computer printouts for the requested individual or groups of stations for individual or groups of parameters. Statistical summaries of the data are also available as computer printouts or in periodic publications. Inquiries for these data should be directed to:

New York State Department of
Environmental Conservation
Water Quality Surveillance
50 Wolf Road
Albany, New York 12201

EPA (Environmental Protection Agency) is another source of water-quality data. Data for several stations operated by the U.S. Geological Survey for this Federal agency are included in this report. However, data prior to that indicated in the "Period of Record" for some stations and data for many other locations are available through the EPA Data Storage and Retrieval system (STORET). Inquiries for New York water-quality data in the EPA system should be directed to:

Environmental Protection Agency
Water Quality Office
26 Federal Plaza
New York, New York 10007

A source of information on the availability of additional water-quality data is the "Catalog of Information on Water Data" which can be obtained from:

Office of Water Data Coordination
U.S. Geological Survey
Reston, Virginia 22092

## WATER-SUPPLY PAPERS

The table below lists the annual series of water-supply papers that give information of quality of surface waters in New York. Data for the North Atlantic slope basins are given in part 1; for the Ohio River basin, in part 3; and for the St. Lawrence River basin, in part 4.

Water-supply papers can be ordered from:

Branch of Distribution
U.S. Geological Survey
1200 South Eads Street
Arlington, VA 22202

Table 3.--Water-supply paper numbers and parts, water years 1950-70

| Year | Parts 1-4 | Year | Parts 1-2 | Parts 3-4 | Year | Part 1 | Part 3 | Parts 4-5 |
|---|---|---|---|---|---|---|---|---|
| 1950 | 1186 | 1959 | 1641 | 1642 | 1968 | 2091 | 2093 | 2094 |
| 1951 | 1197 | 1960 | 1741 | 1742 | 1969 | 2141 | 2143 | 2144 |
| 1952 | 1250 | 1961 | 1881 | 1882 | 1970 | 2151 | a2153 | 2154 |
| 1953 | 1290 | 1962 | 1941 | 1942 | | | | |
| 1954 | 1350 | 1963 | 1947 | 1948 | | | | |
| 1955 | 1400 | 1964 | 1954 | 1955 | | | | |
| 1956 | 1450 | 1965 | 1961 | 1962 | | | | |
| 1957 | 1520 | 1966 | 1991 | 1992 | | | | |
| 1958 | 1571 | 1967 | 2011 | 2012 | | | | |

a In press.

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Table 4.--Factors for converting English units to International System (SI) units

The following factors may be used to convert English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

| Multiply English units | By | To obtain SI units |
|---|---|---|
| | *Length* | |
| inches (in) | 25.4 | millimetres (mm) |
| feet (ft) | .3048 | metres (m) |
| miles (mi) | 1.609 | kilometres (km) |
| | *Area* | |
| acres | 4,047 | square metres (m$^2$) |
| | .4047 | *hectares (ha) |
| | .4047 | square hectometre (hm$^2$) |
| | .004047 | square kilometres (km$^2$) |
| square miles (mi$^2$) | 2.590 | square kilometres (km$^2$) |
| | *Volume* | |
| gallons (gal) | 3.785 | **litres (1) |
| | 3.785 | cubic decimetres (dm$^3$) |
| | $3.785\text{x}10^{-3}$ | cubic metres (m$^3$) |
| million gallons ($10^6$ gal) | 3,785 | cubic metres (m$^3$) |
| | $3.785\text{x}10^{-3}$ | cubic hectometres (hm$^3$) |
| cubic feet (ft$^3$) | 28.32 | cubic decimetres (dm$^3$) |
| | .02832 | cubic metres (m$^3$) |
| cfs-day (ft$^3$/s-day) | 2,447 | cubic metres (m$^3$) |
| | $2.447\text{x}10^{-3}$ | cubic hectometres (hm$^3$) |
| acre-feet (acre-ft) | 1,233 | cubic metres (m$^3$) |
| | $1.233\text{x}10^{-3}$ | cubic hectometres (hm$^3$) |
| | $1.233.10^{-6}$ | cubic kilometres (km$^3$) |
| | *Flow* | |
| cubic feet per second (ft$^3$/s) | 28.32 | litres per second (l/s) |
| | 28.32 | cubic decimetres per second (dm$^3$/s) |
| | .02832 | cubic metres per second (m$^3$/s) |
| gallons per minute (gpm) | .06309 | litres per second (l/s) |
| | .06309 | cubic decimetres per second (dm$^3$/s) |
| | $6.309\text{x}10^{-5}$ | cubic metres per second (m$^3$/s) |
| million gallons per day (mgd) | 43.81 | cubic decimetres per second (dm$^3$/s) |
| | .04381 | cubic metres per second (m$^3$/s) |
| | *Mass* | |
| ton (short) | .9027 | tonne (t) |

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p.13, 1972 edition.

## NORTH ATLANTIC SLOPE BASINS

## HOUSATONIC RIVER BASIN

### 01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, at gaging station 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut state line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi$^2$ (526 km$^2$).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1959, October 1972 to September 1974.
Water temperatures: October 1958 to September 1959.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | 1020 | 48 | 2.2 | 40 | 0 | -- | 47 | -- | 22 | -- | 9.7 | -- |
| NOV. 20... | 1100 | 52 | 1.7 | 40 | 10 | -- | 49 | -- | 22 | -- | 9.0 | -- |
| DEC. 19... | 1115 | 253 | 5.0 | 190 | 30 | -- | 29 | -- | 13 | -- | 4.3 | -- |
| JAN. 23... | 1055 | 604 | 4.8 | 630 | 50 | -- | 30 | -- | 13 | -- | 5.4 | -- |
| FEB. 21... | 1130 | 464 | 4.1 | 500 | 30 | -- | 32 | -- | 13 | -- | 4.5 | -- |
| MAR. 20... | 1100 | 528 | 3.9 | 310 | 30 | -- | 28 | -- | 12 | -- | 4.3 | -- |
| APR. 16... | 1210 | 895 | 3.0 | 820 | 40 | 24 | -- | 9.8 | -- | 3.2 | -- | 1.7 |
| MAY 14... | 1540 | 676 | 4.2 | 540 | 80 | 26 | -- | 12 | -- | 4.0 | -- | 1.5 |
| JUNE 25... | 1500 | 117 | 5.5 | 300 | 30 | 40 | -- | 17 | -- | 6.4 | -- | 1.8 |
| JULY 25... | 0715 | 58 | -- | 200 | 20 | 41 | -- | 18 | -- | 10 | -- | 2.1 |
| AUG. 15... | 1015 | 38 | -- | 50 | 70 | 39 | -- | 17 | -- | 7.7 | -- | 2.1 |
| SEP. 18... | 0900 | 61 | -- | 190 | 280 | 42 | -- | 16 | -- | 7.9 | -- | 1.9 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | 3.0 | 231 | 0 | 189 | 20 | 14 | -- | .3 | .79 | .01 | .01 | .21 |
| NOV. 20... | 2.8 | 227 | 0 | 186 | 22 | 15 | -- | .2 | .91 | .00 | .05 | .10 |
| DEC. 19... | .6 | 129 | 0 | 106 | 20 | 7.8 | -- | .2 | .89 | .00 | .03 | .12 |
| JAN. 23... | 1.7 | 123 | 0 | 101 | 19 | 9.5 | -- | .0 | 1.1 | .02 | .06 | .22 |
| FEB. 21... | 1.9 | 135 | 0 | 111 | 18 | 9.8 | -- | .2 | 1.3 | .01 | .13 | .17 |
| MAR. 20... | 1.8 | 121 | 0 | 99 | 18 | 8.6 | -- | .1 | 1.2 | .00 | .12 | .03 |
| APR. 16... | -- | 107 | 0 | 88 | 16 | 6.6 | .1 | -- | .73 | .01 | .07 | .10 |
| MAY 14... | -- | 110 | 0 | 90 | 15 | 5.8 | .2 | -- | .48 | .02 | .03 | .19 |
| JUNE 25... | -- | 187 | 0 | 153 | 18 | 10 | .2 | -- | 1.1 | .03 | .00 | .26 |
| JULY 25... | -- | 188 | 0 | 154 | 21 | 17 | -- | -- | .67 | .01 | .19 | .07 |
| AUG. 15... | -- | 198 | 0 | 162 | 22 | 13 | -- | -- | .41 | .01 | .24 | .12 |
| SEP. 18... | -- | 205 | 0 | 168 | 19 | 13 | -- | -- | .42 | .00 | .14 | .09 |

## 01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 25... | .22 | 1.0 | .12 | -- | .10 | 232 | 248 | 182 | 0 | 0 | 208 | 18 |
| NOV. | | | | | | | | | | | | |
| 20... | .15 | 1.1 | .09 | -- | .08 | 234 | 252 | 196 | 3 | 3 | 210 | 27 |
| DEC. | | | | | | | | | | | | |
| 19... | .15 | 1.0 | .04 | -- | .03 | 144 | 155 | 125 | 11 | 9 | 130 | 20 |
| JAN. | | | | | | | | | | | | |
| 23... | .28 | 1.4 | .05 | -- | .03 | 144 | 153 | 129 | 20 | 16 | 130 | 28 |
| FEB. | | | | | | | | | | | | |
| 21... | .30 | 1.6 | .03 | -- | .02 | 150 | 180 | 136 | 11 | 9 | 130 | 23 |
| MAR. | | | | | | | | | | | | |
| 20... | .15 | 1.3 | .03 | -- | .01 | 136 | 157 | 118 | 26 | 21 | 120 | 20 |
| APR. | | | | | | | | | | | | |
| 16... | .17 | .91 | .04 | .02 | -- | -- | 136 | 119 | 16 | 11 | -- | -- |
| MAY | | | | | | | | | | | | |
| 14... | .22 | .72 | .04 | .02 | -- | -- | 157 | 94 | 12 | 8 | -- | -- |
| JUNE | | | | | | | | | | | | |
| 25... | .26 | 1.4 | .09 | .07 | -- | -- | 223 | 170 | 8 | 4 | -- | -- |
| JULY | | | | | | | | | | | | |
| 25... | .26 | .94 | .05 | .03 | -- | -- | 246 | 156 | 6 | 5 | -- | -- |
| AUG. | | | | | | | | | | | | |
| 15... | .36 | .78 | .04 | .02 | -- | -- | 224 | 166 | 2 | 0 | -- | -- |
| SEP. | | | | | | | | | | | | |
| 18... | .23 | .65 | .05 | .03 | -- | -- | 224 | 173 | 2 | 1 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 25... | 435 | 7.6 | 10.0 | -- | -- | 11.4 | 101. | 5 | 2800 | 40 | -- | .0 |
| NOV. | | | | | | | | | | | | |
| 20... | 422 | 8.4 | 5.5 | -- | -- | 13.8 | 109 | 4 | 88 | 210 | -- | .0 |
| DEC. | | | | | | | | | | | | |
| 19... | 277 | 7.1 | .0 | -- | -- | 11.6 | 79 | 5 | 810 | 68 | -- | .0 |
| JAN. | | | | | | | | | | | | |
| 23... | 274 | 6.8 | 1.0 | -- | -- | 13.2 | 94 | 7 | 880 | 420 | -- | .0 |
| FEB. | | | | | | | | | | | | |
| 21... | 285 | 7.8 | 5.0 | -- | -- | 13.2 | 92 | 8 | B200 | 52 | -- | .0 |
| MAR. | | | | | | | | | | | | |
| 20... | 256 | 6.8 | 3.0 | -- | -- | 12.4 | 98 | 0 | 110 | B24 | -- | .0 |
| APR. | | | | | | | | | | | | |
| 16... | 345 | 7.8 | 10.0 | -- | -- | 11.5 | 100 | 8 | 48 | 73 | -- | .0 |
| MAY | | | | | | | | | | | | |
| 14... | 275 | 8.4 | 14.5 | -- | -- | 11.7 | 115 | 11 | 850 | 230 | -- | .0 |
| JUNE | | | | | | | | | | | | |
| 25... | 290 | 8.1 | 17.0 | -- | -- | 9.2 | 95 | 8 | 4300 | 335 | -- | .0 |
| JULY | | | | | | | | | | | | |
| 25... | 346 | 7.3 | 17.5 | 3 | 3 | 8.6 | 89 | 7 | 410 | 370 | -- | .0 |
| AUG. | | | | | | | | | | | | |
| 15... | 350 | 8.4 | 20.0 | 3 | 2 | 9.2 | 100 | 8 | -- | -- | 2.6 | -- |
| SEP. | | | | | | | | | | | | |
| 18... | 400 | 8.2 | 15.0 | 1 | 9 | 10.0 | 99 | 6 | -- | -- | -- | -- |

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| APR. | | | | | |
| 16... | 1210 | <1 | 20 | 1 | <.5 |
| AUG. | | | | | |
| 15... | 1015 | 1 | 10 | 3 | <.5 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, at gaging station on right bank at Beaver Dam, 30 ft (9 m) upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 mi (2.4 km) southwest of Bayville.

DRAINAGE AREA.--About 11.5 mi² (30 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 02... | 1330 | 10 | 7.4 | 590 | 30 | 10 | 4.4 | 9.2 | 2.4 | 34 | 0 |
| JAN. | | | | | | | | | | | |
| 02... | 1030 | 14 | 8.7 | 330 | 30 | 9.5 | 4.4 | 15 | 1.7 | 23 | 0 |
| FEB. | | | | | | | | | | | |
| 08... | 1430 | 9.6 | 8.6 | 280 | 30 | 10 | 4.2 | 13 | 1.6 | 22 | 0 |
| 26... | 1400 | 9.2 | 8.3 | 450 | 30 | 9.5 | 3.8 | 15 | 1.5 | 24 | 0 |
| MAR. | | | | | | | | | | | |
| 26... | 1300 | 8.8 | 6.6 | 460 | 90 | 9.0 | 3.4 | 11 | 2.0 | 24 | 0 |
| MAY | | | | | | | | | | | |
| 14... | 1400 | 11 | 7.0 | 750 | 60 | 10 | 3.8 | 12 | 1.4 | 21 | 1 |
| JUNE | | | | | | | | | | | |
| 04... | 1345 | 9.6 | 7.1 | 620 | 60 | 9.8 | 3.8 | 10 | 1.2 | 25 | 0 |
| 27... | 1400 | 9.2 | 7.3 | 900 | 1400 | 11 | 4.0 | 10 | 1.8 | 36 | 0 |
| AUG. | | | | | | | | | | | |
| 06... | 1300 | 8.4 | 7.2 | 510 | 100 | 9.8 | 4.5 | 11 | 1.9 | 30 | 0 |
| SEP. | | | | | | | | | | | |
| 06... | 1400 | 10 | 5.8 | 430 | 30 | 9.0 | 3.7 | 8.1 | 1.4 | 29 | 0 |

| DATE | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 02... | 28 | 17 | 14 | .3 | .98 | .02 | .32 | .13 | .45 | 1.4 | .04 |
| JAN. | | | | | | | | | | | |
| 02... | 19 | 16 | 24 | .2 | 1.4 | .01 | .10 | .15 | .25 | 1.6 | .02 |
| FEB. | | | | | | | | | | | |
| 08... | 18 | 19 | 20 | .1 | 1.7 | .01 | .03 | .19 | .22 | 1.9 | .01 |
| 26... | 20 | 16 | 26 | .2 | 1.4 | .02 | .12 | .17 | .29 | 1.7 | .03 |
| MAR. | | | | | | | | | | | |
| 26... | 20 | 16 | 19 | .1 | 1.2 | .01 | .20 | .22 | .42 | 1.6 | .03 |
| MAY | | | | | | | | | | | |
| 14... | 19 | 16 | 17 | .1 | .46 | .03 | .07 | .55 | .62 | 1.1 | .05 |
| JUNE | | | | | | | | | | | |
| 04... | 21 | 15 | 15 | .1 | .50 | .03 | .00 | .50 | .50 | 1.0 | .04 |
| 27... | 30 | 16 | 15 | .1 | -- | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 06... | 25 | 16 | 16 | .1 | .02 | .01 | .48 | .72 | 1.2 | 1.2 | .08 |
| SEP. | | | | | | | | | | | |
| 06... | 24 | 15 | 13 | .1 | .37 | .01 | .31 | .27 | .56 | .96 | .05 |

| DATE | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 02... | -- | 81 | 145 | 6.4 | 11.0 | 9.2 | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 02... | -- | 91 | 195 | 6.6 | 1.0 | 13.4 | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 08... | -- | 87 | 170 | 7.0 | 7.0 | 10.7 | .0 | -- | -- | -- | -- |
| 26... | -- | 92 | 170 | 7.6 | 7.0 | 11.6 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 26... | -- | 79 | 170 | 6.6 | 5.0 | -- | .0 | 0 | 10 | 4 | <.5 |
| MAY | | | | | | | | | | | |
| 14... | .02 | 81 | 160 | 8.6 | 19.0 | 6.7 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 04... | .01 | 77 | 142 | 8.6 | 23.0 | 7.5 | .0 | -- | -- | -- | -- |
| 27... | -- | 84 | 138 | 8.6 | 19.5 | 12.0 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 06... | .02 | 82 | 145 | 8.8 | 28.0 | 7.0 | .1 | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 06... | .02 | 72 | 120 | 7.5 | 19.0 | 7.8 | .0 | -- | -- | -- | -- |

## 01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 73°54'24", Suffolk County, at gaging station on left bank 50 ft (15 m) upstream from Long Island Railroad bridge 0.2 mi (0.3 km) northeast of Yaphank Station, and 0.5 mi (0.8 km) southeast of Yaphank.

DRAINAGE AREA.--About 71 mi² (184 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 02... | 1100 | 28 | 9.4 | 370 | 100 | 6.5 | 2.8 | 7.5 | 1.5 | 18 | 0 |
| DEC. | | | | | | | | | | | |
| 28... | 1400 | 33 | 9.4 | 290 | 80 | 7.1 | 2.9 | 6.2 | 1.1 | 13 | 0 |
| FEB. | | | | | | | | | | | |
| 14... | 1030 | 33 | 10 | 480 | 110 | 6.7 | 2.4 | 6.5 | 1.2 | 15 | 0 |
| 27... | 1200 | 31 | 10 | 410 | 90 | 6.5 | 2.3 | 6.8 | 1.2 | 17 | 0 |
| MAR. | | | | | | | | | | | |
| 28... | 1300 | 31 | 9.9 | 370 | 80 | 6.1 | 2.5 | 6.2 | 1.3 | 14 | 0 |
| MAY | | | | | | | | | | | |
| 15... | 1030 | 31 | 10 | 520 | 140 | 7.0 | 2.2 | 7.1 | 1.0 | 17 | 0 |
| JUNE | | | | | | | | | | | |
| 04... | 1015 | 30 | 11 | 580 | 120 | 6.6 | 2.4 | 7.3 | 1.0 | 15 | 0 |
| 25... | 1130 | 29 | 10 | 420 | 110 | 6.9 | 2.6 | 7.0 | 1.1 | 17 | 0 |
| AUG. | | | | | | | | | | | |
| 06... | 0930 | 24 | 8.6 | 270 | 80 | 7.0 | 2.4 | 6.5 | .7 | 8 | 0 |
| SEP. | | | | | | | | | | | |
| 06... | 1100 | 24 | 8.8 | 240 | 80 | 6.5 | 2.2 | 6.6 | 1.0 | 16 | 0 |
| 27... | 1245 | 23 | 8.2 | 250 | 70 | 6.5 | 2.3 | 7.5 | .8 | 19 | 0 |

| DATE | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 02... | 15 | 11 | 11 | .2 | .78 | .00 | .21 | .03 | .24 | 1.0 | .01 |
| DEC. | | | | | | | | | | | |
| 28... | 11 | 11 | 9.8 | .3 | .94 | .00 | .04 | .03 | .07 | 1.0 | .01 |
| FEB. | | | | | | | | | | | |
| 14... | 12 | 12 | 10 | .1 | .97 | .00 | .01 | .04 | .05 | 1.0 | .01 |
| 27... | 14 | 12 | 11 | .2 | 1.1 | .01 | .03 | .12 | .15 | 1.2 | .02 |
| MAR. | | | | | | | | | | | |
| 28... | 11 | 12 | 9.8 | .1 | .93 | .00 | .00 | .15 | .15 | 1.1 | .02 |
| MAY | | | | | | | | | | | |
| 15... | 14 | 12 | 10 | .1 | .71 | .03 | .03 | .16 | .19 | .93 | .02 |
| JUNE | | | | | | | | | | | |
| 04... | 12 | 11 | 10 | .1 | .75 | .03 | .01 | .21 | .22 | 1.0 | .02 |
| 25... | 14 | 12 | 9.6 | .1 | 1.2 | .02 | .14 | .15 | .29 | 1.5 | .02 |
| AUG. | | | | | | | | | | | |
| 06... | 7 | 13 | 9.9 | .2 | .53 | -- | -- | -- | -- | .65 | .02 |
| SEP. | | | | | | | | | | | |
| 06... | 13 | 11 | 9.6 | .1 | .61 | .01 | .15 | -- | .13 | .75 | .01 |
| 27... | 16 | 13 | 12 | .1 | .60 | .00 | .14 | .01 | .15 | .75 | .02 |

| DATE | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 02... | -- | 59 | 108 | 5.8 | 11.5 | 10.2 | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 28... | -- | 54 | 110 | 7.3 | 9.0 | 9.4 | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 14... | -- | 56 | 110 | 6.6 | 5.0 | 10.6 | .0 | -- | -- | -- | -- |
| 27... | -- | 58 | 115 | 5.9 | 6.0 | 10.1 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 28... | -- | 55 | 105 | 6.4 | 10.0 | -- | .0 | 0 | 20 | 1 | <.5 |
| MAY | | | | | | | | | | | |
| 15... | .00 | 61 | 124 | 6.2 | 17.0 | 7.5 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 04... | .00 | 60 | 100 | 6.1 | 18.0 | 9.5 | .0 | -- | -- | -- | -- |
| 25... | .00 | 61 | 100 | 6.5 | 17.5 | 5.9 | .0 | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 06... | -- | 55 | 100 | 6.3 | 21.0 | 5.5 | .0 | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 06... | .01 | 56 | 100 | 6.0 | 17.0 | 7.0 | .0 | -- | -- | -- | -- |
| 27... | .00 | 6[illegible] | 100 | 5.9 | 17.0 | 7.2 | .0 | -- | -- | -- | -- |

## 01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, at gaging station on left bank 350 ft (107 m) west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mi (0.3 km) north of Massapequa Park, and 3,000 ft (914 m) upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 mi$^2$ (98.4 km$^2$).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 05... | 1415 | 4.0 | 8.4 | 310 | 2000 | 18 | 4.7 | 28 | 6.1 | 13 | 0 |
| JAN. | | | | | | | | | | | |
| 02... | 1400 | 8.6 | 8.3 | 290 | 2000 | 18 | 4.3 | 26 | 9.7 | 33 | 0 |
| FEB. | | | | | | | | | | | |
| 11... | 1200 | 9.5 | 7.8 | 300 | 350 | 18 | 4.2 | 32 | 5.3 | 29 | 0 |
| 27... | 1530 | 8.6 | 7.6 | 370 | 1600 | 18 | 4.0 | 27 | 5.9 | 12 | 0 |
| APR. | | | | | | | | | | | |
| 02... | 1145 | 14 | 8.4 | 210 | 1500 | 19 | 4.2 | 28 | 5.1 | 33 | 0 |
| MAY | | | | | | | | | | | |
| 15... | 1315 | 9.0 | 7.7 | 160 | 500 | 19 | 3.8 | 27 | 6.0 | 31 | 0 |
| JUNE | | | | | | | | | | | |
| 05... | 0900 | 7.2 | 8.7 | 180 | 830 | 19 | 4.2 | 27 | 6.0 | 27 | 0 |
| 27... | 1100 | 5.8 | 8.1 | 100 | 390 | 22 | 4.2 | 27 | 5.6 | 16 | 0 |
| AUG. | | | | | | | | | | | |
| 07... | 1000 | 3.7 | 6.5 | 150 | 780 | 19 | 4.6 | 28 | 6.2 | 33 | 0 |
| SEP. | | | | | | | | | | | |
| 09... | 1000 | 6.3 | 7.8 | 260 | 1800 | 19 | 3.7 | 26 | 5.1 | 13 | 0 |

| DATE | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 05... | 11 | 44 | 30 | .2 | 6.6 | .03 | 3.0 | -- | 2.8 | 9.4 | .01 |
| JAN. | | | | | | | | | | | |
| 02... | 27 | 43 | 32 | .1 | 6.8 | .02 | 2.6 | .00 | 2.6 | 9.4 | .01 |
| FEB. | | | | | | | | | | | |
| 11... | 24 | 44 | 37 | .0 | 6.9 | .02 | 3.0 | -- | 2.2 | 9.1 | .01 |
| 27... | 10 | 42 | 33 | .0 | 7.0 | .03 | 2.9 | -- | 2.6 | 9.6 | .02 |
| APR. | | | | | | | | | | | |
| 02... | 27 | 42 | 32 | .1 | 7.0 | .92 | 1.2 | 1.0 | 2.2 | 10 | .02 |
| MAY | | | | | | | | | | | |
| 15... | 25 | 41 | 30 | .0 | 6.1 | .06 | 2.0 | .40 | 2.4 | 8.6 | .02 |
| JUNE | | | | | | | | | | | |
| 05... | 22 | 41 | 30 | .0 | 6.3 | .10 | 1.8 | .40 | 2.2 | 8.6 | .02 |
| 27... | 13 | 45 | 32 | .0 | -- | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 07... | 27 | 43 | 29 | .1 | 5.4 | .04 | 1.4 | -- | -- | 6.4 | .01 |
| SEP. | | | | | | | | | | | |
| 09... | 11 | 43 | 30 | .0 | 6.3 | .14 | 2.9 | -- | 2.5 | 8.9 | .02 |

| DATE | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | | |
| 05... | -- | 146 | 320 | 6.4 | 10.0 | 12.1 | .1 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 02... | -- | 158 | 330 | 6.7 | 7.0 | 12.2 | .1 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 11... | -- | 163 | 375 | 6.6 | 5.0 | 11.9 | .1 | -- | -- | -- | -- |
| 27... | -- | 143 | 345 | 6.2 | 11.5 | 9.9 | .2 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | -- | 155 | 330 | 6.6 | 11.0 | -- | .2 | 1 | 10 | 10 | <.5 |
| MAY | | | | | | | | | | | |
| 15... | .00 | 175 | 330 | 6.1 | 24.0 | -- | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 05... | .00 | 178 | 315 | 5.7 | 17.0 | 8.0 | .2 | -- | -- | -- | -- |
| 27... | -- | 184 | 280 | 6.3 | 18.5 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 07... | .01 | 177 | 310 | 5.9 | 18.0 | 3.3 | .3 | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 09... | .01 | 169 | 310 | 6.1 | 18.0 | 6.0 | .2 | -- | -- | -- | -- |

## 01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

**LOCATION.**--Lat 40°39'56", long 73°34'13", Nassau County, at gaging station on right bank in Freeport, 24 ft (7 m) upstream from bridge on Hempstead-Babylon Turnpike and 400 ft (122 m) west of Meadowbrook Parkway.

**DRAINAGE AREA.**--About 31 mi² (80 km²).

**PERIOD OF RECORD.**--Chemical analyses: October 1970 to September 1974.

**REMARKS.**--Miscellaneous chemical analyses 1966 to 1970 water years.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 02... | 1530 | 5.2 | 5.7 | 380 | 730 | 15 | 3.9 | 36 | 4.4 | 30 | 0 |
| JAN. 02... | 1515 | 8.2 | 5.9 | 500 | 650 | 19 | 3.9 | 52 | 4.0 | 33 | 0 |
| FEB. 11... | 1400 | 12 | 7.5 | 380 | 1200 | 25 | 5.3 | 100 | 5.7 | 47 | 0 |
| 28... | 1330 | 11 | 6.7 | 330 | 900 | 23 | 4.5 | 60 | 5.5 | 47 | 0 |
| APR. 02... | 1230 | 12 | 6.3 | 410 | 600 | 19 | 4.0 | 95 | 3.3 | 34 | 0 |
| MAY 14... | 0930 | 7.7 | 5.7 | 320 | 570 | 17 | 3.4 | 46 | 3.8 | 31 | 0 |
| JUNE 05... | 1200 | 4.8 | 6.3 | 320 | 390 | 18 | 4.0 | 57 | 4.1 | 27 | 0 |
| 25... | 1200 | 4.8 | 7.3 | 380 | 620 | 22 | 4.5 | 29 | 4.3 | 36 | 0 |
| AUG. 07... | 0845 | 1.2 | 5.9 | 480 | 340 | 20 | 4.0 | 76 | 4.0 | 34 | 0 |
| SEP. 09... | 0830 | 4.4 | 5.1 | 260 | 480 | 14 | 3.8 | 42 | 2.6 | 28 | 0 |

| DATE | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 02... | 25 | 26 | 52 | .2 | 2.7 | .04 | 1.2 | -- | -- | -- | .03 |
| JAN. 02... | 27 | 31 | 80 | .1 | 3.4 | .03 | 1.2 | .00 | 1.2 | 4.6 | .03 |
| FEB. 11... | 39 | 51 | 150 | .0 | 7.4 | .03 | 3.7 | -- | 2.4 | 9.8 | .01 |
| 28... | 39 | 46 | 86 | .1 | 6.1 | .04 | 3.4 | -- | 3.3 | 9.4 | .01 |
| APR. 02... | 28 | 34 | 140 | .1 | 4.0 | .04 | 1.0 | .10 | 1.1 | 5.1 | .02 |
| MAY 14... | 25 | 26 | 67 | .1 | 2.9 | .05 | .82 | .38 | 1.2 | 4.1 | .03 |
| JUNE 05... | 22 | 32 | 82 | .1 | 3.0 | .07 | .40 | .43 | .83 | 3.9 | .03 |
| 25... | 30 | 45 | 34 | .1 | 3.3 | .08 | .47 | .93 | 1.4 | 4.8 | .04 |
| AUG. 07... | 28 | 34 | 120 | .2 | 1.9 | .04 | .32 | .58 | .90 | 2.8 | .06 |
| SEP. 09... | 23 | 24 | 65 | .0 | 1.9 | .04 | .71 | .26 | .97 | 2.9 | .03 |

| DATE | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 02... | -- | 158 | 335 | 6.2 | 13.0 | 5.7 | .0 | -- | -- | -- | -- |
| JAN. 02... | -- | 212 | 415 | 6.7 | 6.0 | 11.0 | .1 | -- | -- | -- | -- |
| FEB. 11... | -- | 368 | 750 | 6.1 | 7.0 | 10.2 | .1 | -- | -- | -- | -- |
| 28... | -- | 255 | 525 | 6.5 | 10.0 | 8.3 | .2 | -- | -- | -- | -- |
| APR. 02... | -- | 318 | 550 | 6.5 | 10.0 | -- | .1 | 1 | 10 | 33 | <.5 |
| MAY 14... | .00 | 196 | 375 | 6.4 | 15.0 | 5.2 | -- | -- | -- | -- | -- |
| JUNE 05... | .01 | 231 | 435 | 6.2 | 19.0 | 7.4 | .1 | -- | -- | -- | -- |
| 25... | .00 | 183 | 350 | 6.5 | 17.5 | 7.6 | .2 | -- | -- | -- | -- |
| AUG. 07... | .03 | 289 | 500 | 6.4 | 20.0 | 4.7 | .2 | -- | -- | -- | -- |
| SEP. 09... | .01 | 180 | 330 | 6.1 | 17.0 | 4.9 | .1 | -- | -- | -- | -- |

## 01316500 SCHROON LAKE AT POTTERSVILLE, N.Y.

LOCATION.--Lat 43°43'40", long 73°48'40", Warren County, at outlet at bridge on River Road, 0.8 mi (1.3 km) upstream from Trout Brook and 0.8 mi (1.3 km) east of Pottersville.

DRAINAGE AREA.--317 mi$^2$ (821 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | 1150 | 5.6 | 20 | 10 | 5.5 | .8 | 1.9 | .5 | 9 | 0 |
| JULY 23... | 1145 | -- | 130 | 20 | 7.8 | 1.0 | 2.0 | .3 | 11 | 0 |
| AUG. 13... | 1200 | -- | 110 | 110 | 8.0 | 1.7 | 1.8 | .4 | 15 | -- |
| SEP. 04... | 1200 | -- | 90 | 40 | 7.5 | 1.2 | 2.0 | .8 | 14 | -- |

| DATE | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | 7 | 7.2 | 2.7 | .2 | .14 | .01 | .00 | .19 | .19 |
| JULY 23... | 9 | 8.4 | 3.1 | -- | .08 | .00 | .10 | .12 | .22 |
| AUG. 13... | 12 | 7.4 | 3.0 | -- | .20 | .00 | .12 | .10 | .22 |
| SEP. 04... | -- | 5.7 | 3.5 | -- | .04 | .00 | .04 | .30 | .34 |

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | .34 | .00 | .00 | 41 | 28 | 3 | 0 | 51 | 7.1 |
| JULY 23... | .30 | .01 | .01 | 48 | -- | 2 | 0 | 55 | 7.0 |
| AUG. 13... | .42 | .01 | .00 | 58 | 39 | 8 | 0 | 49 | -- |
| SEP. 04... | .38 | .01 | .00 | 33 | 8 | 1 | 1 | 58 | -- |

| DATE | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| JULY 23... | 3 | 1 | 10 | -- | -- | 0 | 20 | 2 | <.5 |
| AUG. 13... | 1 | 1 | 11 | 4.3 | -- | 0 | 0 | 7 | <.5 |
| SEP. 04... | 1 | 1 | 11 | 3.8 | -- | -- | -- | -- | -- |

## 01316808 LOON LAKE NEAR CHESTERTOWN, N.Y.

**LOCATION.**--Lat 43°44'40", long 73°50'20", Warren County, at dam, at outlet of lake, at U.S. Highway 9 and State Highway 8, and 1.6 mi (2.6 km) northwest of Chestertown.

**DRAINAGE AREA.**--13.0 mi² (33.7 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974 (discontinued).

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | 1255 | 4.2 | 80 | 10 | 4.5 | 1.0 | 4.1 | .5 | 16 | 0 |
| JULY<br>23... | 1330 | -- | 70 | 30 | 6.9 | 1.1 | 4.9 | .4 | 16 | 0 |
| AUG.<br>13... | 1250 | -- | 150 | 90 | 6.4 | 1.3 | 4.2 | .4 | 17 | -- |
| SEP.<br>04... | 1230 | -- | 140 | 40 | 6.5 | 1.1 | 4.1 | 1.8 | 17 | -- |

| DATE | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | 13 | 6.7 | 6.4 | .0 | .00 | .01 | .02 | .28 | .30 |
| JULY<br>23... | 13 | 7.2 | 7.3 | -- | .01 | .00 | .19 | .09 | .28 |
| AUG.<br>13... | 14 | 6.9 | 7.5 | -- | .01 | .00 | .22 | .00 | .22 |
| SEP.<br>04... | 14 | 4.8 | 7.4 | -- | .01 | .00 | .14 | .16 | .30 |

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | .30 | .00 | .00 | 56 | 35 | 2 | 0 | 70 | 6.8 |
| JULY<br>23... | .29 | .01 | .01 | 52 | 24 | 3 | 2 | 73 | 7.0 |
| AUG.<br>13... | .23 | .01 | .00 | 68 | 40 | 8 | 2 | 68 | -- |
| SEP.<br>04... | .31 | .01 | .01 | 38 | 31 | 4 | 2 | 73 | -- |

| DATE | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| JULY<br>23... | 6 | 2 | 13 | -- | -- | <1 | 60 | 1 | <.5 |
| AUG.<br>13... | 1 | 2 | 16 | 7.4 | -- | 0 | 10 | 4 | <.5 |
| SEP.<br>04... | 2 | 1 | 13 | 6.1 | -- | -- | -- | -- | -- |

## 01316815 FRIENDS LAKE NEAR CHESTERTOWN, N.Y.

**LOCATION.**--Lat 43°38'12", long 73°50'25", Warren County, on east side of lake, 0.2 mi (0.3 km) south of outlet and 2.0 mi (3.2 km) southwest of Chestertown.

**DRAINAGE AREA.**--5.70 mi$^2$ (14.76 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974 (discontinued).

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | 1320 | 2.9 | 20 | 20 | 5.6 | .8 | 1.5 | .5 | 14 | 0 |
| JULY<br>23... | 1500 | -- | 160 | 10 | 5.4 | .9 | 1.4 | .4 | 12 | 0 |
| AUG.<br>13... | 1335 | -- | 60 | 70 | 6.9 | 1.1 | 1.5 | .4 | 15 | -- |
| SEP.<br>04... | 1330 | -- | 160 | 680 | 5.6 | 1.1 | 1.9 | .8 | 15 | -- |

| DATE | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | 11 | 6.4 | 1.6 | .1 | .00 | .01 | .01 | .23 | .24 |
| JULY<br>23... | 10 | 7.2 | 1.4 | -- | .49 | .00 | .11 | .18 | .29 |
| AUG.<br>13... | 12 | 7.1 | 1.7 | -- | .01 | .00 | .13 | .12 | .25 |
| SEP.<br>04... | 12 | 5.4 | 2.0 | -- | .01 | .00 | .07 | .20 | .27 |

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | .24 | .01 | .00 | 34 | 20 | 1 | 0 | 50 | 7.2 |
| JULY<br>23... | .78 | .01 | .01 | 36 | 19 | 2 | 2 | 50 | 6.8 |
| AUG.<br>13... | .26 | .01 | .01 | 37 | 23 | 6 | 2 | 40 | -- |
| SEP.<br>04... | .28 | .01 | .01 | 42 | 18 | 1 | 0 | 52 | -- |

| DATE | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| JULY<br>23... | 1 | 2 | 11 | -- | -- | 0 | 20 | 3 | <.5 |
| AUG.<br>13... | 1 | 2 | 11 | 5.5 | -- | 0 | 0 | 5 | <.5 |
| SEP.<br>04... | 2 | 2 | 10 | 4.2 | -- | -- | -- | -- | -- |

## 01316095 BRANT LAKE OUTLET AT BRANT LAKE, N.Y.

LOCATION.--Lat 43°41'10", long 73°44'30", Warren County, at bridge on County Highway 24 and 0.1 mi (0.2 km) northeast of State Highway 8 in Brant Lake.

DRAINAGE AREA.--39.3 mi$^2$ (101.8 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | 1115 | 2.5 | 20 | 20 | 9.0 | 1.4 | 2.3 | 1.0 | 20 | 0 |
| JULY<br>23... | 1255 | -- | 0 | 30 | 8.5 | 1.2 | 2.0 | .8 | 20 | 0 |
| AUG.<br>13... | 1230 | -- | 60 | 140 | 10 | 1.5 | 2.1 | .6 | 25 | -- |
| SEP.<br>04... | 1130 | -- | 80 | 20 | 8.4 | 1.3 | 2.0 | .9 | 21 | -- |

| DATE | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | 16 | 8.0 | 8.3 | .1 | .00 | .01 | .04 | .29 | .33 |
| JULY<br>23... | 16 | 8.8 | 3.2 | -- | .01 | .00 | .12 | .12 | .24 |
| AUG.<br>13... | 21 | 9.2 | 3.0 | -- | .37 | .00 | .19 | .07 | .26 |
| SEP.<br>04... | -- | 5.9 | 3.6 | -- | .01 | .00 | .08 | .15 | .23 |

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | .34 | .01 | .00 | 53 | 28 | 4 | 0 | 71 | 7.1 |
| JULY<br>23... | .25 | .01 | .01 | 52 | -- | 4 | 2 | 72 | 6.9 |
| AUG.<br>13... | .63 | .01 | .01 | 43 | 29 | 10 | 5 | 61 | -- |
| SEP.<br>04... | .24 | .01 | .00 | 41 | 8 | 1 | 1 | 72 | -- |

| DATE | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>10... | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| JULY<br>23... | 3 | 1 | 11 | -- | -- | <1 | 40 | 2 | <.5 |
| AUG.<br>13... | 2 | 2 | 13 | 6.2 | -- | <1 | 0 | 4 | <.5 |
| SEP.<br>04... | 1 | 1 | 12 | 4.0 | -- | -- | -- | -- | -- |

## 01317000 SCHROON RIVER AT RIVERBANK, N.Y.

LOCATION.--Lat 43°36'34", long 73°44'17", Warren County, at former gaging station, at highway bridge, at Riverbank, 0.6 mi (1.0 km) upstream from Alder Brook, 6.4 mi (10.3 km) downstream from dam at Starbuckville, and 11.8 mi (19.0 km) downstream from Schroon Lake.

DRAINAGE AREA.--527 mi² (1,365 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | 1030 | 500 | 5.6 | 80 | 20 | 7.0 | 1.0 | 2.5 | .4 | 18 |
| JULY 23... | 1100 | -- | -- | 170 | 20 | 8.4 | 1.4 | 2.6 | .4 | 20 |
| AUG. 13... | 1120 | 132 | -- | 190 | 90 | 10 | 1.8 | 2.4 | .6 | 24 |
| SEP. 04... | 1030 | 184 | -- | 170 | 20 | 8.6 | 1.5 | 2.5 | 1.0 | 23 |

| DATE | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | 0 | 15 | 7.1 | 3.5 | .1 | .13 | .01 | .02 | .22 | .24 |
| JULY 23... | 0 | 16 | 8.6 | 4.3 | -- | .10 | .00 | .11 | .16 | .27 |
| AUG. 13... | -- | 20 | 8.5 | 4.8 | -- | .08 | .01 | .15 | .06 | .21 |
| SEP. 04... | -- | 19 | 5.9 | 5.3 | -- | .07 | .00 | .09 | .16 | .25 |

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | .38 | .01 | .00 | 44 | 27 | 0 | 0 | 64 | 7.0 | -- |
| JULY 23... | .37 | .01 | .01 | 56 | 32 | 4 | 2 | 73 | 7.2 | -- |
| AUG. 13... | .30 | .01 | .00 | 74 | 51 | 10 | 4 | 73 | -- | -- |
| SEP. 04... | .32 | .01 | .00 | 50 | 36 | 6 | 5 | 78 | 7.3 | 17.5 |

| DATE | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| JULY 23... | 5 | 1 | 10 | -- | -- | 0 | 20 | 8 | <.5 |
| AUG. 13... | 2 | 2 | 13 | 5.1 | -- | 0 | 0 | 14 | <.5 |
| SEP. 04... | 6 | 1 | 12 | 8.1 | -- | -- | -- | -- | -- |

## 01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, at gaging station 300 ft (91 m) upstream from bridge on Teachout Road in Griffin, 2.0 mi (3.2 km) downstream from Georgia Creek, 3 mi (5 km) upstream from mouth and 7 mi (11 km) upstream from Wells.

DRAINAGE AREA.--114 mi$^2$ (295 km$^2$).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>24... | 1230 | E40 | 7.6 | 450 | 60 | -- | 6.0 | -- | 1.5 | -- | 2.7 |
| NOV.<br>14... | 1500 | E62 | 7.5 | 120 | 0 | -- | 5.2 | -- | 1.3 | -- | 2.5 |
| DEC.<br>20... | 1830 | E130 | 6.5 | 90 | 0 | -- | 5.2 | -- | 1.1 | -- | 1.5 |
| JAN.<br>23... | 1215 | E390 | 6.0 | 210 | 30 | -- | 4.5 | -- | .9 | -- | 1.6 |
| FEB.<br>21... | 1315 | E64 | 8.2 | 150 | 0 | -- | 5.2 | -- | 1.0 | -- | 2.0 |
| MAR.<br>22... | 1530 | E115 | 7.4 | 190 | 30 | -- | 5.0 | -- | .9 | -- | 1.6 |
| APR.<br>25... | 1130 | 470 | 5.1 | 780 | 20 | 2.7 | -- | .7 | -- | 1.0 | -- |
| MAY<br>23... | 2030 | 189 | 5.2 | 150 | 20 | 5.0 | -- | .9 | -- | 1.5 | -- |
| JUNE<br>18... | 1140 | 228 | 5.2 | 240 | 20 | 4.5 | -- | 1.0 | -- | 1.7 | -- |
| JULY<br>16... | 1415 | 24 | -- | 260 | 20 | 5.4 | -- | 1.2 | -- | 2.5 | -- |
| AUG.<br>08... | 1330 | 47 | -- | 240 | 30 | 4.9 | -- | 1.2 | -- | 1.6 | -- |
| SEP.<br>03... | 0930 | 45 | -- | 320 | 10 | 6.6 | -- | 1.3 | -- | 1.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>24... | -- | .8 | 14 | 0 | 11 | 11 | 2.2 | -- | .4 | .07 | .00 |
| NOV.<br>14... | -- | .5 | 10 | 0 | 8 | 9.6 | 1.7 | -- | .2 | .33 | .00 |
| DEC.<br>20... | -- | .4 | 7 | 0 | 6 | 7.6 | 1.3 | -- | .4 | .72 | .00 |
| JAN.<br>23... | -- | .3 | 3 | 0 | 2 | 9.0 | 1.5 | -- | .1 | .75 | .00 |
| FEB.<br>21... | -- | .5 | 9 | 0 | 7 | 9.9 | 2.3 | -- | .1 | .61 | .00 |
| MAR.<br>22... | -- | .3 | 3 | 0 | 2 | 9.3 | 1.9 | -- | .0 | .66 | .00 |
| APR.<br>25... | .4 | -- | 4 | 0 | 3 | 7.2 | .9 | .1 | -- | .59 | .01 |
| MAY<br>23... | .3 | -- | 6 | 0 | 5 | 8.1 | 1.4 | .1 | -- | .27 | .01 |
| JUNE<br>18... | .4 | -- | 8 | 0 | 7 | 9.4 | 1.9 | .2 | -- | .14 | .01 |
| JULY<br>16... | .4 | -- | 14 | 0 | 11 | 8.5 | 3.4 | -- | -- | .29 | .01 |
| AUG.<br>08... | .6 | -- | 6 | 2 | 8 | 10 | 1.7 | -- | -- | .09 | .00 |
| SEP.<br>03... | .5 | -- | 12 | 0 | 10 | 9.3 | 2.0 | -- | -- | .09 | .00 |

E Estimated value.

CONTINUED NEXT PAGE

## 01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | .01 | .12 | .13 | .20 | .13 | -- | .01 | 39 | 65 | 48 |
| NOV. 14... | .00 | .15 | .15 | .49 | .00 | -- | .00 | 33 | 48 | 31 |
| DEC. 20... | .03 | .05 | .08 | .81 | .01 | -- | .00 | 27 | 43 | 36 |
| JAN. 23... | .05 | .05 | .10 | .85 | .01 | -- | .00 | 25 | 32 | 25 |
| FEB. 21... | .03 | .08 | .11 | .72 | .00 | -- | .00 | 34 | 45 | 27 |
| MAR. 22... | .07 | .02 | .09 | .75 | .01 | -- | .00 | 28 | 42 | 32 |
| APR. 25... | .03 | .13 | .16 | .76 | .01 | .00 | -- | -- | 31 | -- |
| MAY 23... | .04 | .15 | .19 | .47 | .01 | .00 | -- | -- | 47 | 43 |
| JUNE 18... | .05 | .23 | .28 | .43 | .01 | .01 | -- | -- | 43 | 24 |
| JULY 16... | .38 | .00 | .30 | .60 | .02 | .01 | -- | -- | 44 | 28 |
| AUG. 08... | .12 | .16 | .28 | .37 | .01 | .00 | -- | -- | 41 | 18 |
| SEP. 03... | .16 | .10 | .26 | .35 | .01 | .00 | -- | -- | 60 | 28 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 9 | 7 | 20 | 9 | 49 | 6.9 | 7.0 | -- | -- | 13.2 |
| NOV. 14... | 4 | 0 | 20 | 12 | 44 | 6.6 | 6.0 | -- | -- | 13.5 |
| DEC. 20... | 5 | 4 | 13 | 7 | 34 | 6.9 | .0 | -- | -- | 14.6 |
| JAN. 23... | 0 | 0 | 13 | 11 | 45 | 6.2 | .0 | -- | -- | 15.6 |
| FEB. 21... | 1 | 1 | 18 | 11 | 38 | 6.3 | .0 | -- | -- | 14.1 |
| MAR. 22... | 5 | 2 | 14 | 12 | 35 | 6.6 | .0 | -- | -- | 13.8 |
| APR. 25... | 4 | 1 | -- | -- | 42 | 6.3 | 5.0 | -- | -- | 14.0 |
| MAY 23... | 1 | 1 | -- | -- | 40 | 6.7 | 16.5 | -- | -- | 9.6 |
| JUNE 18... | 2 | 0 | -- | -- | 43 | 6.7 | 17.5 | -- | -- | 9.8 |
| JULY 16... | 2 | 0 | -- | -- | 53 | 7.3 | 23.5 | 20 | 1 | 9.2 |
| AUG. 08... | 3 | 2 | -- | -- | 50 | 7.2 | 22.0 | 20 | 1 | 9.2 |
| SEP. 03... | 2 | 0 | -- | -- | 47 | 7.1 | 17.0 | 40 | 2 | 8.7 |

## 01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>24... | 110 | 13 | 112 | B6 | -- | .0 | -- | -- | -- | -- |
| NOV.<br>14... | 110 | 9 | B24 | B2 | -- | .0 | -- | -- | -- | -- |
| DEC.<br>20... | 120 | 10 | B64 | -- | -- | .0 | -- | -- | -- | -- |
| JAN.<br>23... | 111 | 8 | 40 | B10 | -- | .0 | -- | -- | -- | -- |
| FEB.<br>21... | 98 | 8 | B2 | B1 | -- | .0 | -- | -- | -- | -- |
| MAR.<br>22... | 105 | 7 | 21 | B1 | -- | .0 | -- | -- | -- | -- |
| APR.<br>25... | 88 | 10 | B2 | <1 | -- | .0 | -- | -- | -- | -- |
| MAY<br>23... | 99 | 10 | 120 | 16 | -- | .0 | -- | -- | -- | -- |
| JUNE<br>18... | 101 | 16 | B260 | B62 | -- | .0 | -- | -- | -- | -- |
| JULY<br>16... | 107 | 15 | 690 | B16 | -- | -- | -- | -- | -- | -- |
| AUG.<br>08... | 106 | 13 | -- | -- | 5.5 | -- | -- | -- | -- | -- |
| SEP.<br>03... | 94 | 18 | -- | -- | 9.0 | -- | 0 | 0 | 1 | <.5 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01325005 SACANDAGA RIVER AT HADLEY, N.Y.

LOCATION.--Lat 43°18'50", long 73°50'45", Saratoga County, at bridge on Corinth Road in Hadley, 0.1 mi (0.2 km) upstream from mouth and 1.3 mi (2.1 km) downstream from gaging station (01325000) near Hadley.

DRAINAGE AREA.--1,055 mi² (2,732 km²) at gaging station.

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | 1435 | E2020 | 4.7 | 70 | 30 | 4.6 | .9 | 1.7 | .5 | 6 |
| JULY 23... | 1640 | E2540 | -- | 130 | 70 | 5.0 | .9 | 1.0 | .6 | 7 |
| AUG. 13... | 1435 | E2520 | -- | 100 | 100 | 5.1 | 1.1 | 1.3 | .8 | 8 |
| SEP. 04... | 1420 | E2520 | -- | 210 | 180 | 4.7 | 1.0 | 1.6 | .6 | 10 |

| DATE | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | 0 | 5 | 7.1 | 1.9 | .0 | .42 | .01 | .02 | .29 | .31 |
| JULY 23... | 0 | 6 | 7.8 | 1.6 | -- | .29 | .00 | .09 | .10 | .19 |
| AUG. 13... | -- | 7 | 8.0 | 1.9 | -- | .24 | .02 | .17 | .00 | .13 |
| SEP. 04... | -- | 8 | 6.0 | 2.2 | -- | .18 | .00 | .09 | .21 | .30 |

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | .74 | .01 | .00 | 38 | 18 | 0 | 0 | 45 | 6.8 |
| JULY 23... | .48 | .01 | .01 | 40 | -- | 2 | 0 | 43 | 6.8 |
| AUG. 13... | .39 | .01 | .01 | 32 | 16 | 10 | 8 | 43 | -- |
| SEP. 04... | .48 | .01 | .00 | 28 | 19 | 2 | 1 | 47 | -- |

| DATE | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| JUNE 10... | -- | -- | 7 | -- | .0 | -- | -- | -- | -- |
| JULY 23... | 2 | 1 | 8 | -- | -- | 1 | 30 | 1 | <.5 |
| AUG. 13... | 1 | 2 | 10 | 4.0 | -- | 0 | 0 | 4 | <.5 |
| SEP. 04... | 0 | 2 | 10 | 5.3 | -- | -- | -- | -- | -- |

E Estimated value.

## 01325420 HUDSON RIVER AT CORINTH, N.Y.

**LOCATION.**--Lat 43°14'55", long 73°49'57", Saratoga County, at bridge on River Street, in Corinth, 0.2 mi (0.3 km) downstream from Sturdevant Creek, and 2.0 mi (3.2 km) downstream from Barber Brook.

**DRAINAGE AREA.**--2,755 mi² (7,135 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1300 | E2660 | 4.2 | 170 | 50 | -- | 5.2 | -- | 1.1 | -- | 3.0 | -- |
| NOV. 13... | 1315 | E3060 | 4.1 | 0 | 0 | -- | 5.5 | -- | 1.2 | -- | 2.0 | -- |
| JAN. 22... | 1215 | E7330 | 4.9 | 140 | 20 | -- | 4.8 | -- | 1.1 | -- | 1.8 | -- |
| FEB. 19... | 1210 | E6820 | 5.0 | 210 | 30 | -- | 5.1 | -- | 1.1 | -- | 1.3 | -- |
| APR. 15... | 1330 | E13900 | 4.7 | 390 | 30 | -- | 4.6 | -- | .8 | -- | 1.1 | -- |
| MAY 14... | 1300 | E17000 | 5.8 | 150 | 60 | 4.2 | -- | .9 | -- | 1.5 | -- | .4 |
| JUNE 10... | 1500 | E3490 | 6.1 | 180 | 40 | 8.3 | -- | 1.2 | -- | 6.0 | -- | .7 |
| JULY 23... | 1710 | E4630 | -- | 180 | 20 | 6.8 | -- | 1.1 | -- | 2.2 | -- | .4 |
| AUG. 13... | 1500 | E3280 | -- | 160 | 160 | 7.0 | -- | 2.0 | -- | 1.5 | -- | .7 |
| SEP. 04... | 1445 | E3770 | -- | 180 | 90 | 4.9 | -- | 1.1 | -- | 1.5 | -- | .6 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .4 | 15 | 0 | 12 | 7.0 | 2.5 | -- | .1 | .19 | .00 | .03 | .24 |
| NOV. 13... | .5 | 14 | 0 | 11 | 6.4 | 1.5 | -- | .2 | .11 | .00 | .00 | .19 |
| JAN. 22... | .4 | 9 | 0 | 7 | 7.8 | 2.3 | -- | .1 | .40 | .00 | .12 | .07 |
| FEB. 19... | .5 | 8 | 0 | 7 | 8.0 | 1.8 | -- | .0 | .45 | .00 | .03 | .13 |
| APR. 15... | .8 | 11 | 0 | 9 | 7.6 | 1.6 | -- | .1 | .33 | .00 | .10 | .09 |
| MAY 14... | -- | 8 | 0 | 7 | 8.0 | 1.5 | .1 | -- | .35 | .01 | .03 | .19 |
| JUNE 10... | -- | 15 | 0 | 12 | 7.2 | 4.1 | .1 | -- | .18 | .01 | .05 | .41 |
| JULY 23... | -- | 13 | 0 | 11 | 8.3 | 2.2 | -- | -- | .23 | .00 | .11 | .11 |
| AUG. 13... | -- | 12 | -- | 10 | 9.0 | 2.0 | -- | -- | .25 | .01 | .18 | .17 |
| SEP. 04... | -- | 12 | -- | 10 | 5.8 | 2.6 | -- | -- | .16 | .00 | .07 | .20 |

E Estimated value.

CONTINUED NEXT PAGE

### 01325420 HUDSON RIVER AT CORINTH, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA.MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>16... | .27 | .47 | .01 | -- | .00 | 31 | 63 | -- | 4 | 0 | 18 | 5 |
| NOV.<br>13... | .19 | .31 | .01 | -- | .01 | 28 | 41 | 22 | 8 | 3 | 19 | 7 |
| JAN.<br>22... | .19 | .59 | .00 | -- | .00 | 28 | 45 | -- | 16 | -- | 17 | 9 |
| FEB.<br>19... | .16 | .61 | .01 | -- | .00 | 27 | 42 | 24 | 6 | 4 | 17 | 11 |
| APR.<br>15... | .19 | .52 | .03 | -- | .01 | 27 | 42 | 25 | 17 | 0 | 15 | 6 |
| MAY<br>14... | .22 | .58 | .01 | .00 | -- | -- | 51 | 27 | 7 | 0 | -- | -- |
| JUNE<br>10... | .46 | .65 | .01 | .00 | -- | -- | 48 | 26 | 1 | 1 | -- | -- |
| JULY<br>23... | .22 | .45 | .01 | .01 | -- | -- | 38 | -- | 3 | 2 | -- | -- |
| AUG.<br>13... | .35 | .61 | .01 | .01 | -- | -- | 63 | 43 | 11 | 8 | -- | -- |
| SEP.<br>04... | .27 | .43 | .01 | .00 | -- | -- | 30 | 23 | 1 | 0 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>16... | 51 | 6.8 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| NOV.<br>13... | 48 | 6.9 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| JAN.<br>22... | 49 | 6.7 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| FEB.<br>19... | 50 | 6.7 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| APR.<br>15... | 42 | 6.7 | -- | -- | 20 | -- | .0 | -- | -- | -- | -- |
| MAY<br>14... | 45 | 6.6 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| JUNE<br>10... | 68 | 6.7 | -- | -- | 10 | -- | .0 | 0 | 10 | 11 | <.5 |
| JULY<br>23... | 53 | 6.9 | 2 | 2 | 9 | -- | -- | -- | -- | -- | -- |
| AUG.<br>13... | 48 | -- | 1 | 2 | 25 | 4.8 | -- | 0 | 0 | 15 | <.5 |
| SEP.<br>04... | 50 | -- | 1 | 2 | 11 | 3.3 | -- | -- | -- | -- | -- |

## 01326400 HUDSON RIVER AT SPIER FALLS, N.Y.

**LOCATION.**--Lat 43°14'00", long 73°45'20", Saratoga County, upstream from Niagara Mohawk Power Plant dam at Spier Falls, 0.5 mi (0.8 km) upstream from former gaging station (01326400) and 5.2 mi (8.4 km) downstream from Corinth.

**DRAINAGE AREA.**--2,778 mi² (7,195 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1345 | E2660 | 4.5 | 220 | 40 | -- | 6.0 | -- | 1.3 | -- | 3.0 | -- |
| NOV. 13... | -- | E3060 | 6.5 | 30 | 0 | -- | 7.0 | -- | 1.5 | -- | 3.0 | -- |
| JAN. 22... | 1245 | E7330 | 4.7 | 130 | 30 | -- | 5.0 | -- | 1.1 | -- | 5.4 | -- |
| FEB. 19... | 1235 | E6820 | 5.2 | 0 | 30 | -- | 5.1 | -- | 1.1 | -- | 1.5 | -- |
| APR. 15... | 1400 | E13900 | 4.9 | 190 | 40 | -- | 4.9 | -- | .8 | -- | 2.9 | -- |
| MAY 14... | 1330 | E17000 | 5.6 | 140 | 40 | 4.6 | -- | .8 | -- | 1.4 | -- | .3 |
| JUNE 10... | 1530 | E3490 | 5.3 | 230 | 40 | 5.9 | -- | 1.1 | -- | 2.5 | -- | .5 |
| JULY 08... | 1445 | E5050 | -- | 220 | 70 | 6.5 | -- | 1.0 | -- | 2.5 | -- | .6 |
| AUG. 13... | 1530 | E3280 | -- | 330 | 100 | 6.0 | -- | 1.3 | -- | 2.0 | -- | .5 |
| SEP. 04... | 1515 | E3770 | -- | 250 | 140 | 7.5 | -- | 2.0 | -- | 2.1 | -- | 1.0 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .5 | 15 | 0 | 12 | 8.0 | 2.5 | -- | .1 | .22 | .00 | .00 | .23 |
| NOV. 13... | .5 | 17 | 0 | 14 | 8.2 | 2.5 | -- | .1 | .17 | .01 | .04 | .12 |
| JAN. 22... | .4 | 8 | 0 | 7 | 8.6 | 8.1 | -- | .2 | .33 | .01 | .16 | -- |
| FEB. 19... | .4 | 9 | 0 | 7 | 8.5 | 2.0 | -- | .1 | .44 | .00 | .04 | .12 |
| APR. 15... | 1.1 | 10 | 0 | 8 | 8.1 | 1.9 | -- | .1 | .33 | .00 | .08 | .07 |
| MAY 14... | -- | 7 | 0 | 6 | 8.5 | 1.5 | .1 | -- | .23 | .02 | .05 | .23 |
| JUNE 10... | -- | 12 | 0 | 10 | 7.7 | 3.1 | .2 | -- | .34 | .01 | .09 | .49 |
| JULY 08... | -- | 13 | 0 | 11 | 10 | 2.9 | -- | -- | .20 | .01 | .13 | .48 |
| AUG. 13... | -- | 17 | -- | 14 | 9.2 | 2.5 | -- | -- | .14 | .01 | .22 | .90 |
| SEP. 04... | -- | 14 | -- | 11 | 10 | 2.5 | -- | -- | .13 | .00 | .12 | .14 |

E Estimated value.

CONTINUED NEXT PAGE

## 01326400 HUDSON RIVER AT SPIER FALLS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .23 | .45 | .01 | -- | .00 | 33 | 65 | -- | 5 | 0 | 20 | 8 |
| NOV. 13... | .16 | .34 | .01 | -- | .05 | 38 | 51 | 27 | 6 | 4 | 24 | 10 |
| JAN. 22... | .15 | .49 | .00 | -- | .00 | 37 | 58 | 22 | 1 | 0 | 17 | 10 |
| FEB. 19... | .16 | .60 | .01 | -- | .00 | 28 | 41 | 21 | 4 | 4 | 17 | 10 |
| APR. 15... | .15 | .48 | .02 | -- | .00 | 30 | 41 | 29 | 5 | 5 | 16 | 7 |
| MAY 14... | .28 | .53 | .02 | .00 | -- | -- | 44 | -- | 5 | 0 | -- | -- |
| JUNE 10... | .58 | .93 | .02 | .00 | -- | -- | 47 | 26 | 3 | 2 | -- | -- |
| JULY 08... | .61 | .82 | .02 | .00 | -- | -- | 57 | 34 | 5 | 2 | -- | -- |
| AUG. 13... | .20 | .35 | .02 | .00 | -- | -- | 59 | 34 | 13 | 12 | -- | -- |
| SEP. 04... | .26 | .39 | .01 | .01 | -- | -- | 59 | 30 | 1 | 3 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 57 | 6.7 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| NOV. 13... | 61 | 6.9 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| JAN. 22... | 69 | 6.8 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| FEB. 19... | 53 | 6.9 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| APR. 15... | 45 | 6.8 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| MAY 14... | 42 | 6.6 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| JUNE 10... | 59 | 6.8 | -- | -- | 11 | -- | .0 | 0 | 10 | 8 | <.5 |
| JULY 08... | 63 | 6.9 | 20 | 2 | 19 | -- | -- | -- | -- | -- | -- |
| AUG. 13... | 52 | -- | 2 | 3 | 13 | 5.2 | -- | 0 | 10 | 7 | <.5 |
| SEP. 04... | 65 | -- | 1 | 2 | 12 | 8.2 | -- | -- | -- | -- | -- |

## 01327600 HUDSON RIVER AT GLENS FALLS, N.Y.

**LOCATION.**--Lat 43°18'20", long 73°36'58", at Warren-Saratoga County line, at highway and quarry conveyor bridge, 0.1 mi (0.2 km) east of Glens Falls and 1.4 mi (2.3 km) downstream from bridge on U.S. Highway 9 and State Highway 32.

**DRAINAGE AREA.**--2,810 mi$^2$ (7,278 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: April 1972 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1130 | 4.5 | 360 | 40 | -- | 8.0 | -- | 1.8 | -- | 5.5 | -- | .5 |
| NOV. 13... | 1230 | 5.1 | 290 | 0 | -- | 7.0 | -- | 1.6 | -- | 3.5 | -- | .5 |
| JAN. 22... | 1130 | 4.9 | 160 | 50 | -- | 5.6 | -- | 1.3 | -- | 2.5 | -- | .4 |
| FEB. 19... | 1130 | 5.2 | 270 | 40 | -- | 6.0 | -- | 1.2 | -- | 1.9 | -- | .5 |
| MAR. 18... | 1430 | 6.5 | 120 | 20 | -- | 7.7 | -- | 1.4 | -- | 2.5 | -- | .5 |
| APR. 15... | 1245 | 5.4 | 190 | 20 | -- | 5.6 | -- | 1.0 | -- | 2.0 | -- | .9 |
| MAY 14... | 1215 | 5.9 | 150 | 50 | 4.5 | -- | 1.0 | -- | 1.8 | -- | .4 | -- |
| JUNE 11... | 1245 | 5.2 | 200 | 40 | 8.0 | -- | 1.2 | -- | 2.6 | -- | .5 | -- |
| JULY 08... | 1415 | -- | 250 | 580 | 10 | -- | 1.3 | -- | 3.8 | -- | .7 | -- |
| AUG. 14... | 1215 | -- | 270 | 130 | 11 | -- | 1.8 | -- | 2.7 | -- | .6 | -- |
| SEP. 03... | 1330 | -- | 130 | 100 | 6.5 | -- | 1.2 | -- | 1.4 | -- | .3 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 18 | 0 | 15 | 14 | 6.5 | -- | .1 | .76 | .00 | .05 | .38 | .43 |
| NOV. 13... | 16 | 0 | 13 | 12 | 3.0 | -- | .3 | .39 | .35 | .00 | .70 | .70 |
| JAN. 22... | 10 | 0 | 8 | 10 | 3.4 | -- | .1 | .39 | .01 | .18 | .14 | .32 |
| FEB. 19... | 8 | 0 | 7 | 12 | 2.9 | -- | .1 | .42 | .00 | .03 | .21 | .24 |
| MAR. 18... | 16 | 0 | 13 | 12 | 4.1 | -- | .2 | .43 | .00 | .54 | .08 | .62 |
| APR. 15... | 14 | 0 | 11 | 8.7 | 3.1 | -- | .2 | .36 | .00 | .22 | .05 | .27 |
| MAY 14... | 9 | 0 | 7 | 8.9 | 1.7 | .1 | -- | .29 | .02 | .05 | .22 | .27 |
| JUNE 11... | 11 | 0 | 9 | 12 | 4.3 | .1 | -- | .34 | .01 | .06 | .41 | .47 |
| JULY 08... | 15 | 0 | 12 | 12 | 3.8 | -- | -- | .20 | .01 | .22 | .56 | .78 |
| AUG. 14... | 15 | -- | 12 | 13 | 4.4 | -- | -- | .22 | .01 | .45 | .00 | .41 |
| SEP. 03... | 18 | -- | 15 | 10 | 2.2 | -- | -- | .21 | .00 | .16 | .11 | .27 |

CONTINUED NEXT PAGE

## 01327600 HUDSON RIVER AT GLENS FALLS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 16... | 1.2 | .01 | -- | .01 | 50 | 87 | -- | 7 | 1 | 27 | 13 | 86 |
| NOV. | | | | | | | | | | | | |
| 13... | 1.4 | .01 | -- | .00 | 41 | 92 | 66 | 8 | 3 | 24 | 11 | 71 |
| JAN. | | | | | | | | | | | | |
| 22... | .72 | .01 | -- | .00 | 33 | 62 | 31 | 0 | 0 | 19 | 11 | 59 |
| FEB. | | | | | | | | | | | | |
| 19... | .66 | .63 | -- | .61 | 36 | -- | 29 | 7 | 7 | 20 | 13 | 61 |
| MAR. | | | | | | | | | | | | |
| 18... | 1.0 | .10 | -- | .00 | 43 | 63 | 44 | 9 | 5 | 25 | 12 | 70 |
| APR. | | | | | | | | | | | | |
| 15... | .63 | .08 | -- | .07 | 34 | 64 | 44 | 4 | 0 | 18 | 7 | 57 |
| MAY | | | | | | | | | | | | |
| 14... | .58 | .02 | .00 | -- | -- | 48 | -- | 10 | 4 | -- | -- | 49 |
| JUNE | | | | | | | | | | | | |
| 11... | .82 | .03 | .00 | -- | -- | 57 | 38 | 1 | 1 | -- | -- | 72 |
| JULY | | | | | | | | | | | | |
| 08... | .99 | .01 | .00 | -- | -- | 59 | 31 | 6 | 4 | -- | -- | 74 |
| AUG. | | | | | | | | | | | | |
| 14... | .64 | .02 | .02 | -- | -- | 78 | 53 | 15 | 3 | -- | -- | 69 |
| SEP. | | | | | | | | | | | | |
| 03... | .48 | .02 | .01 | -- | -- | 57 | 31 | 1 | 0 | -- | -- | 55 |

| DATE | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 6.3 | -- | -- | 18 | -- | .00 | .0 | 0 | 10 | -- | 74 |
| NOV. | | | | | | | | | | | |
| 13... | 6.6 | -- | -- | 13 | -- | .02 | .0 | <1 | 10 | 4 | 3.3 |
| JAN. | | | | | | | | | | | |
| 22... | 6.7 | -- | -- | 11 | -- | .00 | .0 | 1 | 7 | 6 | 2.7 |
| FEB. | | | | | | | | | | | |
| 19... | 6.5 | -- | -- | 13 | -- | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 18... | 6.8 | -- | -- | 24 | -- | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 15... | 6.8 | -- | -- | 10 | -- | -- | .0 | <1 | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 14... | 6.5 | -- | -- | 18 | -- | .00 | .0 | 2 | 10 | 2 | <.5 |
| JUNE | | | | | | | | | | | |
| 11... | 6.6 | -- | -- | 13 | -- | .00 | .0 | 0 | 10 | 9 | <.5 |
| JULY | | | | | | | | | | | |
| 08... | 7.0 | 20 | 5 | 23 | -- | .00 | -- | 0 | 20 | 21 | <.5 |
| AUG. | | | | | | | | | | | |
| 14... | -- | 3 | 6 | 24 | 8.2 | .00 | -- | <1 | 10 | 13 | <.5 |
| SEP. | | | | | | | | | | | |
| 03... | -- | 2 | 10 | 12 | 4.9 | .00 | -- | <1 | 10 | 1 | <.5 |

## 01327700 HUDSON RIVER AT HUDSON FALLS, N.Y.

LOCATION.--Lat 43°18'00", long 73°35'30", Saratoga County, at Arkell and Smiths Pumphouse on west bank in Fenimore, across river from Hudson Falls and 1,500 ft (457 m) upstream from Fenimore Dam.

DRAINAGE AREA.--2,813 mi² (7,286 km²).

PERIOD OF RECORD.--Water temperatures: November 1957 to September 1974.

EXTREMES.--1972-73:
Water temperatures: Maximum, 24.5°C on several days during July and August; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 27.0°C July 16-18, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen many days during January and February. No record Oct. 5, 13, Mar. 31, May 18, 27, June 7, 16, 30, July 14, Aug. 18.

COOPERATION.--Water temperature record furnished by Arkell and Smiths Division of the Chase Bag Corporation.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
### (ONCE-DAILY MEASUREMENT)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16.0 | 10.5 | 3.5 | 0.0 | 0.0 | 1.0 | 1.5 | 12.0 | 14.5 | 20.5 | 23.0 | 23.0 |
| 2 | 16.0 | 10.0 | 3.5 | 0.0 | 0.0 | 0.5 | 2.0 | 11.5 | 15.0 | 20.0 | 23.5 | 22.0 |
| 3 | 16.0 | 10.0 | 3.0 | 0.0 | 0.0 | 0.5 | 3.5 | 11.0 | 16.0 | 20.5 | 23.5 | 21.0 |
| 4 | 16.0 | 9.5 | 3.0 | 0.0 | 0.0 | 0.5 | 4.0 | 10.5 | 16.5 | 21.0 | 23.5 | 20.0 |
| 5 | --- | 9.0 | 3.0 | 0.0 | 0.0 | 1.0 | 4.5 | 9.5 | 18.0 | 21.5 | 23.5 | 20.0 |
| 6 | 15.5 | 8.5 | 3.0 | 0.0 | 0.0 | 1.0 | 5.0 | 9.5 | 18.5 | 21.5 | 23.5 | 20.0 |
| 7 | 15.5 | 8.5 | 2.0 | 0.0 | 0.0 | 1.0 | 3.5 | 9.5 | --- | 22.0 | 23.5 | 19.5 |
| 8 | 15.0 | 8.5 | 3.0 | 0.0 | 0.0 | 1.0 | 3.0 | 9.5 | 19.0 | 23.0 | 23.5 | 19.5 |
| 9 | 15.0 | 7.0 | 3.0 | 0.0 | 0.0 | 0.5 | 2.0 | 9.0 | 20.5 | 23.5 | 23.5 | 19.5 |
| 10 | 15.0 | 6.0 | 3.0 | 0.0 | 0.0 | 0.5 | 2.0 | 9.0 | 21.0 | 24.5 | 23.5 | 20.0 |
| 11 | 14.5 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 3.0 | 9.0 | 21.0 | 24.0 | 23.5 | 20.0 |
| 12 | 14.5 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 3.0 | 9.0 | 20.5 | 24.0 | 24.0 | 20.5 |
| 13 | --- | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 3.0 | 8.5 | 21.0 | 24.0 | 24.0 | 21.0 |
| 14 | 14.5 | 5.0 | 1.5 | 0.0 | 0.0 | 0.0 | 4.0 | 9.5 | 21.0 | --- | 24.0 | 21.0 |
| 15 | 14.0 | 5.0 | 1.0 | 0.0 | 0.0 | 0.0 | 4.5 | 10.5 | 20.5 | 24.5 | 24.0 | 20.5 |
| 16 | 14.0 | 4.5 | 1.0 | 0.0 | 0.0 | 0.0 | 4.5 | 12.0 | --- | 24.5 | 24.0 | 20.5 |
| 17 | 13.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 13.0 | 20.5 | 24.5 | 24.0 | 20.5 |
| 18 | 13.5 | 5.0 | 0.0 | 0.0 | 0.5 | 0.5 | 4.5 | --- | 20.5 | 24.5 | --- | 20.0 |
| 19 | 13.0 | 5.0 | 0.0 | 0.0 | 0.5 | 0.5 | 5.0 | 14.0 | 20.5 | 24.5 | 24.0 | 20.0 |
| 20 | 12.0 | 4.5 | 0.0 | 0.0 | 2.0 | 1.0 | 5.5 | 14.0 | 20.5 | 24.0 | 24.0 | 19.5 |
| 21 | 11.5 | 4.5 | 0.0 | 0.0 | 2.0 | 1.0 | 6.0 | 13.5 | 20.5 | 22.0 | 24.0 | 19.5 |
| 22 | 11.5 | 2.0 | 0.0 | 0.0 | 1.0 | 1.5 | 6.5 | 13.5 | 21.0 | 23.5 | 24.0 | 19.0 |
| 23 | 11.5 | 3.0 | 0.0 | 0.0 | 0.5 | 1.0 | 8.0 | 13.5 | 21.0 | 23.5 | 24.0 | 18.5 |
| 24 | 11.5 | 3.0 | 0.0 | 0.0 | 0.5 | 1.0 | 8.0 | 14.0 | 21.5 | 23.0 | 24.0 | 18.0 |
| 25 | 11.5 | 3.5 | 0.0 | 0.0 | 0.0 | 1.0 | 8.0 | 14.5 | 21.0 | 22.0 | 23.5 | 16.5 |
| 26 | 11.5 | 3.5 | 0.5 | 0.0 | 0.5 | 1.5 | 7.0 | 14.5 | 20.5 | 22.0 | 24.0 | 16.5 |
| 27 | 11.5 | 3.5 | 0.5 | 0.0 | 1.5 | 2.0 | 7.0 | --- | 20.5 | 22.0 | 24.0 | 16.5 |
| 28 | 10.5 | 3.5 | 0.5 | 0.5 | 1.5 | 2.0 | 7.0 | 14.5 | 20.5 | 23.0 | 23.5 | 16.0 |
| 29 | 10.0 | 3.5 | 0.5 | 0.5 | --- | 1.5 | 9.0 | 14.5 | 20.0 | 23.0 | 23.0 | 16.0 |
| 30 | 10.5 | 3.0 | 0.0 | 1.0 | --- | 1.0 | 10.5 | 14.0 | --- | 23.0 | 23.0 | 16.0 |
| 31 | 10.5 | --- | 0.0 | 1.5 | --- | --- | --- | 13.5 | --- | 23.0 | 24.5 | --- |
| AVERAGE | 13.5 | 5.5 | 1.5 | 0.0 | 0.5 | 1.0 | 5.0 | 11.5 | 19.5 | 23.0 | 23.5 | 19.5 |

## 01327750 HUDSON RIVER AT FORT EDWARD, N.Y.

LOCATION (revised).--Lat 43°16'03", long 73°35'12", Washington County, at village dock in Fort Edward and 0.1 mi (0.2 km) upstream from bridge on State Highway 197.

DRAINAGE AREA.--2,817 mi$^2$ (7,296 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

REMARKS.--Prior to November 13, 1973, sampling site was 0.3 mi (0.5 km) upstream. Sample collected Nov. 13, 1973 at 1130 hrs from new site. Sample collected Nov. 13, 1973 at 1200 hrs from old site.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 16... | 1035 | 5.3 | 660 | 80 | -- | 15 | -- | 2.9 | -- | 9.2 | -- | .9 |
| NOV. | | | | | | | | | | | | |
| 13... | 1130 | 5.3 | 1000 | 60 | -- | 9.0 | -- | 2.2 | -- | 6.5 | -- | .6 |
| 13... | 1200 | 5.0 | 40 | 0 | -- | 8.0 | -- | 2.0 | -- | 5.2 | -- | .6 |
| JAN. | | | | | | | | | | | | |
| 22... | 1100 | 5.1 | 230 | 63 | -- | 6.4 | -- | 1.5 | -- | 6.2 | -- | .7 |
| FEB. | | | | | | | | | | | | |
| 19... | 1045 | 5.2 | 60 | 30 | -- | 6.3 | -- | 1.2 | -- | 3.2 | -- | .5 |
| MAR. | | | | | | | | | | | | |
| 18... | 1350 | 6.7 | 230 | 40 | -- | 8.6 | -- | 1.5 | -- | 4.1 | -- | .6 |
| APR. | | | | | | | | | | | | |
| 15... | 1200 | 5.5 | 310 | 20 | -- | 7.0 | -- | 1.4 | -- | 3.8 | -- | 1.2 |
| MAY | | | | | | | | | | | | |
| 14... | 1120 | 6.0 | 380 | 40 | 5.0 | -- | 1.0 | -- | 2.4 | -- | .5 | -- |
| JUNE | | | | | | | | | | | | |
| 11... | 1130 | 5.3 | 690 | 60 | 9.7 | -- | 1.5 | -- | 6.5 | -- | .8 | -- |
| JULY | | | | | | | | | | | | |
| 08... | 1300 | -- | 200 | 490 | 7.6 | -- | 1.4 | -- | 4.5 | -- | .6 | -- |
| AUG. | | | | | | | | | | | | |
| 14... | 1130 | -- | 210 | 510 | 11 | -- | 1.9 | -- | 5.5 | -- | .9 | -- |
| SEP. | | | | | | | | | | | | |
| 03... | 1030 | -- | 460 | 50 | 7.8 | -- | 1.5 | -- | 2.9 | -- | .5 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 16... | 36 | 0 | 30 | 34 | 7.5 | -- | .0 | 1.6 | .00 | .09 | .39 | .48 |
| NOV. | | | | | | | | | | | | |
| 13... | 23 | 0 | 19 | 16 | 5.5 | -- | .1 | .79 | .00 | .15 | .61 | .76 |
| 13... | 19 | 0 | 16 | 17 | 5.0 | -- | .3 | .87 | .01 | .00 | .62 | .62 |
| JAN. | | | | | | | | | | | | |
| 22... | 12 | 0 | 10 | 12 | 7.6 | -- | .1 | .55 | .01 | .24 | .26 | .50 |
| FEB. | | | | | | | | | | | | |
| 19... | 11 | 0 | 9 | 12 | 3.4 | -- | .1 | .60 | .00 | .24 | .23 | .47 |
| MAR. | | | | | | | | | | | | |
| 18... | 18 | 0 | 15 | 14 | 4.9 | -- | .1 | .55 | .00 | .62 | .22 | .84 |
| APR. | | | | | | | | | | | | |
| 15... | 17 | 0 | 14 | 11 | 3.8 | -- | .1 | .36 | .00 | .37 | .11 | .48 |
| MAY | | | | | | | | | | | | |
| 14... | 10 | 0 | 8 | 10 | 2.3 | .1 | -- | .36 | .01 | .14 | .31 | .45 |
| JUNE | | | | | | | | | | | | |
| 11... | 20 | 0 | 16 | 19 | 5.7 | .2 | -- | .56 | .06 | .19 | 1.8 | 2.0 |
| JULY | | | | | | | | | | | | |
| 08... | 16 | 0 | 13 | 14 | 4.2 | -- | -- | .20 | .01 | .28 | .68 | .96 |
| AUG. | | | | | | | | | | | | |
| 14... | 16 | -- | 13 | 20 | 4.5 | -- | -- | .50 | .02 | .78 | .14 | .92 |
| SEP. | | | | | | | | | | | | |
| 03... | 21 | -- | 17 | 15 | 3.1 | -- | -- | .24 | .07 | .32 | .27 | .59 |

## 01327750 HUDSON RIVER AT FORT EDWARD, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 2.1 | .02 | -- | .01 | 93 | 214 | 155 | 11 | 4 | 49 | 20 | 176 |
| NOV. 13... | 1.5 | .04 | -- | .02 | 57 | 153 | 121 | 22 | 14 | 32 | 13 | 100 |
| 13... | 1.5 | .00 | -- | .00 | 52 | 171 | 133 | 30 | 9 | 28 | 13 | 94 |
| JAN. 22... | 1.1 | .03 | -- | .01 | 46 | 76 | 46 | 3 | 2 | 22 | 12 | 85 |
| FEB. 19... | 1.1 | .03 | -- | .01 | 37 | 57 | 32 | 7 | 4 | 21 | 12 | 71 |
| MAR. 18... | 1.4 | .04 | -- | .02 | 49 | 75 | 48 | 13 | 6 | 28 | 13 | 84 |
| APR. 15... | .84 | .03 | -- | .01 | 41 | 72 | 59 | 10 | 4 | 23 | 9 | 70 |
| MAY 14... | .82 | .03 | .00 | -- | -- | 60 | 25 | 18 | 7 | -- | -- | 57 |
| JUNE 11... | 2.6 | .08 | .04 | -- | -- | 189 | 77 | 52 | 36 | -- | -- | 110 |
| JULY 08... | 1.2 | .03 | .01 | -- | -- | 65 | 37 | 6 | 5 | -- | -- | 77 |
| AUG. 14... | 1.5 | .02 | .02 | -- | -- | 93 | 58 | 15 | 7 | -- | -- | 86 |
| SEP. 03... | .80 | .06 | .02 | -- | -- | 68 | 40 | 7 | 4 | -- | -- | 73 |

| DATE | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 6.9 | -- | -- | 21 | -- | .00 | .0 | 0 | 30 | -- | 2.3 |
| NOV. 13... | 6.8 | -- | -- | 8 | -- | .01 | .0 | <1 | 20 | 18 | 2.8 |
| 13... | 6.7 | -- | -- | 15 | -- | -- | .0 | -- | -- | -- | -- |
| JAN. 22... | 6.7 | -- | -- | 12 | -- | .00 | .0 | 0 | 12 | 13 | 2.4 |
| FEB. 19... | 6.7 | -- | -- | 15 | -- | -- | .0 | -- | -- | -- | -- |
| MAR. 18... | 6.9 | -- | -- | 29 | -- | -- | .0 | -- | -- | -- | -- |
| APR. 15... | 6.8 | -- | -- | 15 | -- | -- | .0 | <1 | -- | -- | -- |
| MAY 14... | 6.9 | -- | -- | 21 | -- | .00 | .0 | 2 | 10 | 12 | <.5 |
| JUNE 11... | 6.5 | -- | -- | 24 | -- | .00 | .0 | 0 | 10 | 9 | <.5 |
| JULY 08... | 6.9 | 20 | 3 | 19 | -- | .01 | -- | <1 | 10 | 11 | <.5 |
| AUG. 14... | -- | 8 | 5 | 29 | 9.6 | .00 | -- | 1 | 10 | 7 | <.5 |
| SEP. 03... | -- | 2 | 9 | 20 | 4.5 | .00 | -- | <1 | 10 | 17 | <.5 |

## 01328770 HUDSON RIVER AT THOMSON, N.Y.

LOCATION.--Lat 43°07'36", long 73°35'16", Saratoga County, at bridge on State Highway 4, 0.6 mi (1.0 km) north of Thomson.

DRAINAGE AREA.--2,996 mi² (7,760 km²).

PERIOD OF RECORD.--Chemical analyses: December 1972 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | 1030 | 4.9 | 390 | 30 | -- | 9.0 | -- | 2.2 | -- | 5.2 | -- | .6 |
| 30... | 1045 | 4.3 | 270 | 600 | -- | 9.0 | -- | 1.9 | -- | 5.0 | -- | .7 |
| DEC. | | | | | | | | | | | | |
| 03... | 1415 | 4.8 | 300 | 10 | -- | 8.1 | -- | 1.7 | -- | 3.0 | -- | .7 |
| JAN. | | | | | | | | | | | | |
| 08... | 1330 | 5.2 | 230 | 10 | -- | 7.2 | -- | 1.5 | -- | 3.1 | -- | .5 |
| MAR. | | | | | | | | | | | | |
| 04... | 1300 | 5.4 | 340 | 40 | -- | 7.0 | -- | 1.5 | -- | 2.4 | -- | .6 |
| APR. | | | | | | | | | | | | |
| 02... | 1525 | 6.6 | 430 | 50 | -- | 11 | -- | 2.6 | -- | 5.5 | -- | .8 |
| 15... | 1140 | 5.3 | 810 | 30 | -- | 8.6 | -- | 2.2 | -- | 3.1 | -- | 1.3 |
| MAY | | | | | | | | | | | | |
| 13... | 1215 | 5.7 | 2400 | 120 | 7.8 | -- | 2.3 | -- | 2.7 | -- | 1.0 | -- |
| JUNE | | | | | | | | | | | | |
| 10... | 1320 | 5.0 | 340 | 60 | 8.6 | -- | 1.4 | -- | 4.2 | -- | .5 | -- |
| JULY | | | | | | | | | | | | |
| 09... | 1445 | -- | 270 | 40 | 11 | -- | 1.5 | -- | 3.0 | -- | .4 | -- |
| AUG. | | | | | | | | | | | | |
| 05... | 1450 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | | |
| 17... | 1320 | -- | 490 | 50 | 11 | -- | 1.7 | -- | 3.7 | -- | .4 | -- |
| 30... | 1145 | -- | 530 | 70 | 10 | -- | 2.7 | -- | 4.2 | -- | .8 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | 18 | 0 | 15 | 14 | 8.7 | -- | .3 | .88 | .00 | .00 | .36 | .36 |
| 30... | 12 | 0 | 10 | 16 | 5.5 | -- | .3 | 1.2 | .00 | .02 | 1.1 | 1.1 |
| DEC. | | | | | | | | | | | | |
| 03... | 15 | 0 | 12 | 12 | 6.3 | -- | .4 | .34 | .16 | .06 | .15 | .21 |
| JAN. | | | | | | | | | | | | |
| 08... | 17 | 0 | 14 | 12 | 3.2 | -- | .3 | .44 | .00 | .19 | .22 | .41 |
| MAR. | | | | | | | | | | | | |
| 04... | 16 | 0 | 13 | 12 | 3.8 | -- | .0 | .03 | .02 | .25 | .28 | .53 |
| APR. | | | | | | | | | | | | |
| 02... | 29 | 0 | 24 | 16 | 7.3 | -- | .2 | .65 | .01 | .52 | .19 | .71 |
| 15... | 23 | 0 | 19 | 14 | 4.3 | -- | .1 | .40 | .00 | .31 | .12 | .43 |
| MAY | | | | | | | | | | | | |
| 13... | 20 | 0 | 16 | 12 | 3.1 | .1 | -- | .54 | .02 | .20 | .22 | .42 |
| JUNE | | | | | | | | | | | | |
| 10... | 22 | 0 | 18 | 13 | 4.1 | .1 | -- | .47 | .01 | .19 | .35 | .54 |
| JULY | | | | | | | | | | | | |
| 09... | 15 | 0 | 12 | 14 | 3.3 | -- | -- | .24 | .01 | .20 | .27 | .47 |
| AUG. | | | | | | | | | | | | |
| 05... | 19 | 0 | 16 | 14 | 4.6 | -- | -- | .25 | .01 | .39 | .25 | .64 |
| SEP. | | | | | | | | | | | | |
| 17... | 22 | -- | 18 | 15 | 4.3 | -- | -- | .26 | .02 | .63 | .25 | .88 |
| 30... | 27 | -- | 22 | 14 | 4.5 | -- | -- | .36 | .00 | .39 | .27 | .66 |

## 01328770 HUDSON RIVER AT THOMSON, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 1.2 | .00 | -- | .01 | 54 | 55 | -- | 3 | 0 | 32 | 17 |
| 30... | 2.3 | .01 | -- | .01 | 49 | 67 | 30 | 4 | 0 | 30 | 20 |
| DEC. | | | | | | | | | | | |
| 03... | .72 | .01 | -- | .01 | 44 | 60 | 38 | 6 | 6 | 27 | 15 |
| JAN. | | | | | | | | | | | |
| 08... | .86 | .01 | -- | .00 | 41 | 63 | 46 | 8 | 8 | 24 | 10 |
| MAR. | | | | | | | | | | | |
| 04... | .58 | .01 | -- | .00 | 41 | 54 | 41 | 14 | 8 | 24 | 11 |
| APR. | | | | | | | | | | | |
| 02... | 1.4 | .02 | -- | .01 | 64 | 81 | 56 | 14 | 12 | 38 | 14 |
| 15... | .83 | .04 | -- | .02 | 50 | 81 | 61 | 27 | 20 | 31 | 12 |
| MAY | | | | | | | | | | | |
| 13... | .98 | .07 | .03 | -- | -- | 116 | 79 | 60 | 50 | -- | -- |
| JUNE | | | | | | | | | | | |
| 10... | 1.0 | .02 | .00 | -- | -- | 60 | 37 | 6 | 6 | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | .72 | .02 | .00 | - | -- | 63 | 41 | 8 | 5 | -- | -- |
| AUG. | | | | | | | | | | | |
| 05... | .90 | .02 | .01 | -- | -- | 66 | 38 | 10 | 8 | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | 1.2 | .02 | .02 | -- | -- | 76 | -- | 14 | 5 | -- | -- |
| 30... | 1.0 | .03 | .01 | -- | -- | 87 | 73 | 14 | 14 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 94 | 6.7 | -- | -- | 19 | -- | .0 | -- | -- | -- | -- |
| 30... | 97 | 6.0 | -- | -- | 16 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 03... | 72 | 6.2 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 08... | 72 | 7.0 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 04... | 71 | 6.9 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | 116 | 6.9 | -- | -- | 22 | -- | .0 | -- | -- | -- | -- |
| 15... | 84 | 6.9 | -- | -- | 27 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 13... | 77 | 7.2 | -- | -- | 17 | -- | .0 | 2 | 10 | 5 | <.5 |
| JUNE | | | | | | | | | | | |
| 10... | 90 | 7.0 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | 79 | 6.9 | 20 | 4 | 16 | -- | -- | 0 | 20 | 5 | <.5 |
| AUG. | | | | | | | | | | | |
| 05... | 71 | 6.5 | 4 | 4 | 19 | 5.1 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | 89 | -- | 7 | 10 | 20 | 6.0 | -- | -- | -- | -- | -- |
| 30... | 103 | -- | 8 | 20 | 18 | 8.0 | -- | -- | -- | -- | -- |

## 01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.

LOCATION.--Lat 43°05'55", long 73°31'32", Washington County, at Niagara Mohawk Power Plant in Middle Falls, 0.5 mi (0.8 km) downstream from Hartshorn Brook, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--434 mi$^2$ (1,124 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1130 | 1.5 | 130 | 20 | -- | 28 | -- | 9.8 | -- | 6.2 | -- | 1.1 |
| NOV. 13... | 1135 | 3.2 | 20 | 10 | -- | 26 | -- | 9.3 | -- | 5.2 | -- | 1.1 |
| JUNE 11... | 1045 | 2.2 | 200 | 60 | 26 | -- | 7.0 | -- | 3.5 | -- | 1.2 | -- |
| JULY 08... | 1130 | -- | 130 | 220 | 23 | -- | 5.9 | -- | 3.3 | -- | .8 | -- |
| AUG. 14... | 1045 | -- | 190 | 130 | 30 | -- | 8.4 | -- | 4.1 | -- | 1.1 | -- |
| SEP. 03... | 1130 | -- | 230 | 40 | 22 | -- | 7.4 | -- | 2.5 | -- | .6 | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 133 | 0 | 109 | 10 | 8.5 | -- | .2 | .39 | .00 | .00 | .16 | .16 |
| NOV. 13... | 120 | 0 | 98 | 9.4 | 9.5 | -- | .2 | .49 | .00 | .00 | .10 | .10 |
| JUNE 11... | 98 | 0 | 80 | 10 | 5.5 | .1 | -- | .51 | .01 | .02 | .39 | .41 |
| JULY 08... | 83 | 0 | 68 | 11 | 4.6 | -- | -- | .42 | .01 | .02 | .26 | .28 |
| AUG. 14... | 116 | -- | 95 | 11 | 7.2 | -- | -- | .40 | .01 | .19 | .11 | .30 |
| SEP. 03... | 93 | -- | 76 | 7.0 | 4.3 | -- | -- | .35 | .00 | .08 | .14 | .22 |

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | .55 | .01 | -- | .00 | 131 | 178 | 125 | 5 | 0 | 110 | 1 |
| NOV. 13... | .59 | .00 | -- | .00 | 123 | 222 | 182 | 13 | 7 | 100 | 5 |
| JUNE 11... | .93 | .01 | .00 | -- | -- | 126 | 97 | 6 | 5 | -- | -- |
| JULY 08... | .71 | .02 | .00 | -- | -- | 116 | 90 | 4 | 4 | -- | -- |
| AUG. 14... | .71 | .02 | .01 | -- | -- | 155 | 108 | 11 | 5 | -- | -- |
| SEP. 03... | .57 | .01 | .00 | -- | -- | -- | 90 | 2 | 0 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 253 | 8.0 | -- | -- | 6 | -- | .0 | -- | -- | -- | -- |
| NOV. 13... | 234 | 7.9 | -- | -- | 5 | -- | .0 | -- | -- | -- | -- |
| JUNE 11... | 198 | 7.6 | -- | -- | 6 | -- | .0 | -- | -- | -- | -- |
| JULY 08... | 182 | 7.6 | 2 | 3 | 9 | -- | -- | -- | -- | -- | -- |
| AUG. 14... | 221 | -- | 1 | 5 | 36 | 2.1 | -- | 0 | 0 | 9 | <.5 |
| SEP. 03... | 172 | -- | 7 | 4 | 10 | 3.9 | -- | -- | -- | -- | -- |

## 01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'18", long 73°54'35", Saratoga County, temperature recorder at gaging station on left bank 600 ft (183 m) downstream from Glowegee Creek, 1.0 mi (1.6 km) east of West Milton, and 3.5 mi (5.6 km) northwest of Ballston Spa.

DRAINAGE AREA.--90 mi² (233 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1953 to June 1955.
Water temperatures: October 1952 to June 1970; June 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C July 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, (1952-69,71-74) 28.5°C July 10, 1955; minimum, (1952-70, 72-74) freezing point on many days during winter periods.

REMARKS.--Clock stopped Jan. 18-25, range in temperature 0.0°C to 2.5°C.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 13.0 | 11.0 | 9.5 | 9.0 | 5.0 | 3.0 | 1.5 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 2 | 12.5 | 11.0 | 9.0 | 8.5 | 3.0 | 2.0 | 1.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 14.0 | 12.0 | 9.0 | 8.0 | 2.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 |
| 4 | 16.0 | 13.5 | 8.0 | 6.5 | 3.0 | 1.5 | 1.5 | 1.0 | 0.0 | 0.0 | 1.5 | 1.0 |
| 5 | 16.0 | 14.0 | 7.0 | 6.0 | 6.5 | 3.0 | 1.0 | 1.0 | 0.0 | 0.0 | 2.0 | 1.0 |
| 6 | 14.5 | 13.0 | 6.0 | 5.0 | 6.5 | 5.5 | 1.0 | 1.0 | 0.0 | 0.0 | 1.5 | 0.5 |
| 7 | 13.0 | 11.5 | 5.0 | 4.0 | 5.5 | 4.5 | 1.0 | 1.0 | 0.0 | 0.0 | 2.5 | 1.0 |
| 8 | 13.0 | 11.0 | 5.0 | 4.5 | 4.5 | 3.0 | 1.0 | 1.0 | 0.0 | 0.0 | 2.5 | 1.5 |
| 9 | 12.5 | 11.5 | 5.0 | 4.0 | 3.0 | 2.5 | 1.0 | 1.0 | 0.5 | 0.0 | 1.5 | 1.0 |
| 10 | 12.5 | 10.5 | 4.5 | 3.0 | 3.5 | 3.0 | 1.0 | 1.0 | 0.5 | 0.0 | 3.0 | 1.5 |
| 11 | 12.0 | 10.0 | 3.0 | 2.0 | 3.5 | 3.0 | 1.0 | 1.0 | 0.0 | 0.0 | 2.5 | 1.0 |
| 12 | 11.5 | 9.5 | 4.5 | 3.0 | 3.0 | 1.5 | 1.0 | 1.0 | 0.0 | 0.0 | 2.5 | 1.0 |
| 13 | 12.5 | 10.0 | 5.5 | 4.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.5 | 1.0 |
| 14 | 13.0 | 12.0 | 8.0 | 5.5 | 3.0 | 1.5 | 1.0 | 1.0 | 0.0 | 0.0 | 2.0 | 0.5 |
| 15 | 12.0 | 10.5 | 7.5 | 6.5 | 2.5 | 1.5 | 1.0 | 1.0 | 0.0 | 0.0 | 2.5 | 0.5 |
| 16 | 11.0 | 9.5 | 7.0 | 5.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 2.0 | 1.0 |
| 17 | 10.0 | 9.5 | 5.5 | 4.0 | 2.0 | 1.0 | 1.5 | 1.0 | 0.0 | 0.0 | 1.5 | 1.0 |
| 18 | 10.0 | 9.0 | 4.5 | 4.0 | 1.0 | 1.0 | --- | --- | 0.0 | 0.0 | 2.5 | 1.0 |
| 19 | 9.0 | 8.5 | 5.5 | 4.5 | 2.0 | 1.0 | --- | --- | 0.0 | 0.0 | 2.0 | 1.5 |
| 20 | 10.0 | 9.0 | 4.5 | 3.0 | 1.5 | 1.0 | --- | --- | 0.0 | 0.0 | 3.0 | 1.5 |
| 21 | 10.0 | 9.0 | 3.5 | 2.0 | 1.5 | 1.0 | --- | --- | 0.0 | 0.0 | 2.5 | 0.5 |
| 22 | 9.5 | 8.0 | 5.5 | 3.5 | 1.0 | 1.0 | --- | --- | 0.0 | 0.0 | 1.0 | 0.5 |
| 23 | 10.0 | 8.0 | 5.0 | 4.5 | 1.0 | 1.0 | --- | --- | 0.0 | 0.0 | 2.5 | 0.5 |
| 24 | 10.0 | 8.5 | 5.0 | 4.0 | 1.0 | 1.0 | --- | --- | 0.0 | 0.0 | 3.0 | 2.0 |
| 25 | 10.5 | 9.0 | 6.0 | 5.0 | 1.5 | 1.0 | --- | --- | 0.0 | 0.0 | 2.0 | 1.0 |
| 26 | 10.5 | 8.5 | 6.0 | 5.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.0 |
| 27 | 10.5 | 9.5 | 5.5 | 5.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 1.0 |
| 28 | 9.5 | 8.0 | 7.0 | 5.5 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 1.0 |
| 29 | 8.0 | 7.5 | 7.0 | 6.0 | 1.5 | 1.0 | 0.5 | 0.0 | --- | --- | 2.0 | 1.0 |
| 30 | 10.0 | 8.0 | 6.0 | 5.0 | 1.5 | 1.5 | 1.0 | 0.5 | --- | --- | 1.5 | 1.0 |
| 31 | 9.5 | 8.5 | --- | --- | 1.5 | 1.0 | 1.5 | 0.5 | --- | --- | 2.5 | 1.5 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 4.5 | 2.5 | 16.0 | 13.0 | 17.5 | 13.5 | 20.5 | 17.0 | 20.5 | 18.0 | 17.5 | 15.5 |
| 2 | 4.0 | 3.0 | 13.0 | 10.0 | 16.5 | 14.5 | 20.5 | 17.5 | 20.0 | 18.0 | 17.0 | 16.0 |
| 3 | 5.5 | 2.0 | 11.5 | 9.0 | 17.0 | 13.5 | 20.0 | 18.5 | 21.0 | 19.0 | 16.5 | 13.5 |
| 4 | 5.5 | 4.5 | 12.0 | 8.5 | 18.5 | 14.0 | 22.5 | 18.5 | 21.0 | 19.5 | 13.5 | 12.5 |
| 5 | 5.5 | 4.5 | 12.0 | 8.5 | 20.5 | 15.5 | 22.5 | 20.0 | 20.5 | 18.5 | 14.0 | 11.0 |
| 6 | 4.5 | 3.0 | 11.0 | 8.0 | 20.0 | 17.0 | 22.0 | 18.0 | 20.5 | 17.5 | 13.0 | 12.0 |
| 7 | 4.0 | 2.5 | 8.5 | 7.5 | 19.5 | 16.5 | 23.5 | 19.0 | 19.5 | 17.5 | 16.0 | 12.5 |
| 8 | 5.0 | 4.0 | 10.5 | 7.5 | 21.0 | 16.5 | 24.5 | 20.5 | 19.0 | 16.0 | 16.5 | 14.0 |
| 9 | 4.0 | 1.5 | 10.5 | 9.5 | 23.0 | 17.5 | 24.5 | 21.0 | 19.0 | 17.5 | 17.0 | 14.5 |
| 10 | 4.0 | 1.0 | 9.5 | 9.5 | 24.5 | 19.5 | 25.5 | 22.0 | 19.0 | 17.5 | 18.0 | 15.0 |
| 11 | 6.0 | 2.0 | 11.0 | 9.0 | 23.5 | 20.0 | 23.5 | 19.5 | 19.5 | 16.5 | 18.5 | 16.5 |
| 12 | 5.5 | 4.5 | 11.0 | 10.0 | 20.0 | 16.5 | 22.0 | 18.0 | 19.5 | 16.0 | 18.5 | 16.5 |
| 13 | 6.0 | 5.5 | 10.0 | 9.5 | 18.5 | 14.0 | 22.5 | 18.0 | 19.5 | 17.0 | 20.0 | 18.0 |
| 14 | 8.0 | 6.0 | 13.5 | 9.5 | 18.0 | 16.0 | 25.0 | 19.5 | 20.5 | 18.5 | 19.0 | 15.5 |
| 15 | 8.0 | 6.5 | 17.5 | 13.0 | 19.0 | 15.5 | 25.0 | 22.0 | 21.0 | 19.0 | 15.5 | 13.0 |
| 16 | 8.5 | 6.0 | 17.5 | 14.5 | 18.0 | 17.0 | 24.0 | 21.0 | 20.5 | 17.5 | 15.0 | 13.0 |
| 17 | 10.0 | 7.0 | 18.0 | 15.0 | 17.5 | 16.5 | 22.5 | 18.0 | 20.5 | 18.5 | 14.0 | 11.5 |
| 18 | 10.5 | 8.0 | 18.5 | 15.5 | 18.5 | 17.0 | 22.5 | 19.5 | 20.0 | 17.5 | 13.5 | 12.5 |
| 19 | 11.0 | 8.5 | 17.5 | 14.5 | 18.0 | 16.0 | 23.5 | 20.0 | 21.0 | 17.5 | 14.0 | 11.5 |
| 20 | 10.0 | 7.0 | 16.5 | 12.5 | 20.0 | 16.5 | 22.0 | 18.5 | 21.0 | 18.5 | 15.5 | 14.0 |
| 21 | 11.5 | 7.5 | 14.5 | 12.0 | 19.5 | 17.0 | 20.0 | 16.5 | 21.0 | 19.0 | 15.5 | 14.0 |
| 22 | 13.0 | 10.5 | 17.5 | 12.5 | 19.0 | 16.0 | 21.5 | 16.5 | 20.5 | 18.5 | 14.0 | 12.5 |
| 23 | 13.0 | 12.0 | 17.5 | 16.5 | 18.5 | 16.5 | 21.0 | 18.0 | 20.5 | 18.5 | 12.5 | 10.5 |
| 24 | 12.0 | 9.5 | 16.5 | 14.5 | 20.0 | 15.5 | 20.5 | 17.5 | 20.5 | 18.5 | 10.5 | 8.5 |
| 25 | 11.0 | 7.5 | 15.0 | 13.0 | 18.5 | 16.5 | 18.0 | 16.5 | 20.0 | 18.0 | 9.5 | 8.5 |
| 26 | 12.5 | 8.5 | 14.0 | 12.0 | 17.0 | 16.0 | 18.5 | 16.5 | 19.5 | 16.0 | 11.0 | 9.5 |
| 27 | 13.0 | 8.5 | 13.0 | 11.5 | 17.5 | 15.5 | 19.5 | 18.0 | 19.5 | 18.5 | 12.5 | 10.0 |
| 28 | 14.5 | 10.0 | 14.0 | 11.5 | 18.5 | 15.5 | 21.5 | 18.0 | 19.5 | 18.0 | 12.5 | 12.0 |
| 29 | 16.0 | 13.0 | 13.5 | 12.5 | 18.0 | 16.5 | 22.0 | 18.0 | 18.0 | 16.5 | 14.0 | 12.5 |
| 30 | 16.0 | 14.5 | 16.5 | 12.0 | 18.5 | 16.0 | 20.5 | 18.0 | 16.5 | 16.0 | 14.0 | 11.5 |
| 31 | --- | --- | 15.5 | 13.5 | --- | --- | 20.5 | 18.0 | 17.0 | 15.0 | --- | --- |

## 01330770 KAYADEROSSERAS CREEK AT SARATOGA SPRINGS, N.Y.

LOCATION.--Lat 43°02'37", long 73°46'16", Saratoga County, at bridge on Nelson Avenue, 200 ft (61 m) south of Kaydeross Avenue in Saratoga Springs and 200 ft (61 m) upstream from Bear Swamp Outlet.

DRAINAGE AREA.--173 mi$^2$ (448 km$^2$).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1010 | 6.3 | 160 | 30 | -- | 28 | -- | 8.7 | -- | 17 | -- | 1.9 |
| NOV. 13... | 1015 | 8.7 | 240 | 370 | -- | 27 | -- | 9.0 | -- | 18 | -- | 1.6 |
| JAN. 21... | 1150 | 8.2 | 190 | 30 | -- | 27 | -- | 8.7 | -- | 11 | -- | 1.0 |
| MAR. 18... | 1200 | 5.5 | 400 | 20 | -- | 15 | -- | 4.3 | -- | 5.7 | -- | 1.0 |
| APR. 15... | 1230 | 4.4 | 590 | 20 | -- | 17 | -- | 4.2 | -- | 5.9 | -- | 1.4 |
| MAY 13... | 1315 | 4.5 | 1200 | 80 | 13 | -- | 4.8 | -- | 5.6 | -- | .9 | -- |
| JUNE 10... | 1415 | 4.1 | 330 | 70 | 24 | -- | 7.0 | -- | 13 | -- | 1.4 | -- |
| JULY 09... | 1545 | -- | 260 | 40 | 29 | -- | 8.4 | -- | 11 | -- | 1.1 | -- |
| AUG. 05... | 1620 | -- | 90 | 20 | 29 | -- | 9.0 | -- | 11 | -- | 1.2 | -- |
| SEP. 17... | 1145 | -- | 290 | 40 | 29 | -- | 8.2 | -- | 12 | -- | 1.2 | -- |
| 30... | 1300 | -- | 550 | 90 | 27 | -- | 7.7 | -- | 7.5 | -- | 1.4 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 120 | 0 | 98 | 17 | 21 | -- | .3 | .51 | .00 | .00 | .18 | .18 |
| NOV. 13... | 112 | 0 | 92 | 22 | 20 | -- | .3 | .71 | .00 | .00 | .34 | .34 |
| JAN. 21... | 96 | 0 | 79 | 22 | 17 | -- | .1 | .52 | .08 | .18 | .11 | .29 |
| MAR. 18... | 49 | 0 | 40 | 16 | 10 | -- | .1 | .40 | .01 | .13 | .09 | .22 |
| APR. 15... | 57 | 0 | 47 | 14 | 10 | -- | .1 | .22 | .01 | .10 | .12 | .22 |
| MAY 13... | 57 | 0 | 47 | 14 | 8.5 | .1 | -- | .16 | .01 | .04 | .64 | .68 |
| JUNE 10... | 118 | 0 | 97 | 16 | 18 | .1 | -- | .21 | .03 | .09 | .33 | .42 |
| JULY 09... | 110 | 0 | 90 | 17 | 17 | -- | -- | .29 | .03 | .10 | .27 | .37 |
| AUG. 05... | 109 | 0 | 89 | 18 | 19 | -- | -- | 1.1 | .04 | .22 | .19 | .41 |
| SEP. 17... | 113 | -- | 93 | 16 | 19 | -- | -- | .21 | .01 | .29 | .15 | .44 |
| 30... | 87 | -- | 71 | 11 | 13 | -- | -- | .18 | .00 | .21 | .31 | .52 |

## 01330770 KAYADEROSSERAS CREEK AT SARATOGA SPRINGS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL RESI- DUE (MG/L) | RESIDUE ON IGNI- TION (MG/L) | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | FIXED NON- FILT- RABLE RESIDUE (MG/L) | HARD- NESS (CA,MG) (MG/L) | NON- CAR- BONATE HARD- NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .69 | .10 | -- | .07 | 160 | 183 | 134 | 5 | 0 | 110 | 7 |
| NOV. 13... | 1.0 | .07 | -- | .05 | 162 | 143 | 98 | 12 | 6 | 100 | 13 |
| JAN. 21... | .89 | .04 | -- | .02 | 142 | 175 | 111 | 16 | 4 | 100 | 25 |
| MAR. 18... | .63 | .03 | -- | .01 | 82 | 109 | 83 | 16 | 12 | 55 | 15 |
| APR. 15... | .45 | .04 | -- | .01 | 85 | 112 | 88 | 17 | 16 | 60 | 13 |
| MAY 13... | .85 | .06 | .02 | -- | -- | 138 | 84 | 31 | 14 | -- | -- |
| JUNE 10... | .66 | .05 | .03 | -- | -- | 163 | 125 | 4 | 1 | -- | -- |
| JULY 09... | .69 | .05 | .03 | -- | -- | 174 | 122 | 4 | 3 | -- | -- |
| AUG. 05... | 1.5 | .05 | .03 | -- | -- | 179 | 140 | 6 | 4 | -- | -- |
| SEP. 17... | .66 | .07 | .05 | -- | -- | 173 | 139 | 2 | 0 | -- | -- |
| 30... | .70 | .05 | .02 | -- | -- | 155 | 118 | 11 | 9 | -- | -- |

| DATE | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | COLOR (PLAT- INUM- COBALT UNITS) | TUR- BID- ITY (JTU) | CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 292 | 7.4 | -- | -- | 22 | -- | .0 | -- | -- | -- | -- |
| NOV. 13... | 289 | 7.6 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| JAN. 21... | 260 | 7.4 | -- | -- | 7 | -- | .0 | -- | -- | -- | -- |
| MAR. 18... | 150 | 7.3 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| APR. 15... | 160 | 7.4 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| MAY 13... | 158 | 7.5 | -- | -- | 22 | -- | .0 | -- | -- | -- | -- |
| JUNE 10... | 274 | 8.0 | -- | -- | 9 | -- | .0 | 0 | 0 | 15 | <.5 |
| JULY 09... | 270 | 7.8 | 8 | 2 | 10 | -- | -- | -- | -- | -- | -- |
| AUG. 05... | 231 | 7.9 | 3 | 2 | -- | 3.4 | -- | 0 | 0 | 4 | <.5 |
| SEP. 17... | 260 | -- | 4 | 2 | 14 | -- | -- | -- | -- | -- | -- |
| 30... | 208 | -- | 30 | 5 | 22 | 9.5 | -- | -- | -- | -- | -- |

## 01330885 FISH CREEK AT SARATOGA SPRINGS, N.Y.

LOCATION.--Lat 43°04'27", long 73°41'45", Saratoga County, at Staffords Bridge at Saratoga Springs corporate boundary and 2.2 mi (3.5 km) downstream from Saratoga Lake.

DRAINAGE AREA.--229 mi$^2$ (593 km$^2$).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1045 | 1.5 | 90 | 50 | -- | 25 | -- | 6.8 | -- | 11 | -- | 1.4 |
| NOV. 13... | 1045 | .9 | 30 | 30 | -- | 24 | -- | 6.9 | -- | 11 | -- | 1.4 |
| JAN. 21... | 1230 | 3.7 | 110 | 60 | -- | 27 | -- | 7.4 | -- | 11 | -- | 1.2 |
| FEB. 19... | 1230 | 2.9 | 240 | 40 | -- | 26 | -- | 6.8 | -- | 10 | -- | 1.3 |
| MAR. 18... | 1130 | 3.6 | 220 | 50 | -- | 24 | -- | 6.0 | -- | 9.5 | -- | 1.2 |
| APR. 15... | 1200 | 2.4 | 80 | 20 | -- | 22 | -- | 5.0 | -- | 9.0 | -- | 1.6 |
| MAY 13... | 1340 | .6 | 130 | 40 | 18 | -- | 6.0 | -- | 9.8 | -- | 1.1 | -- |
| JUNE 10... | 1350 | 1.0 | 60 | 20 | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY 09... | 1515 | -- | 20 | 60 | 25 | -- | 6.3 | -- | 9.5 | -- | 1.0 | -- |
| AUG. 05... | 1545 | -- | 50 | 30 | 26 | -- | 6.8 | -- | 10 | -- | 1.3 | -- |
| SEP. 17... | 1220 | -- | 50 | 40 | 25 | -- | 6.6 | -- | 10 | -- | 1.0 | -- |
| 30... | 1215 | -- | 280 | 70 | 24 | -- | 6.7 | -- | 10 | -- | 1.1 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 99 | 0 | 81 | 15 | 16 | -- | .3 | .24 | .00 | .00 | .27 | .27 |
| NOV. 13... | 98 | 0 | 80 | 15 | 17 | -- | .3 | .12 | .00 | .00 | .31 | .31 |
| JAN. 21... | 95 | 0 | 78 | 21 | 17 | -- | .1 | .29 | .04 | .18 | .15 | .33 |
| FEB. 19... | 88 | 0 | 72 | 20 | 17 | -- | .1 | .27 | .02 | .12 | 1.8 | 1.9 |
| MAR. 18... | 82 | 0 | 67 | 19 | 16 | -- | .2 | .35 | .02 | .11 | .12 | .23 |
| APR. 15... | 75 | 0 | 62 | 18 | 16 | -- | .1 | .25 | .00 | .16 | .13 | .29 |
| MAY 13... | 76 | 0 | 62 | 17 | 10 | .2 | -- | .12 | .01 | .04 | .24 | .28 |
| JUNE 10... | 88 | 0 | 72 | 17 | 16 | .2 | -- | .05 | .01 | .04 | 3.4 | 3.4 |
| JULY 09... | 88 | 0 | 72 | 19 | 16 | -- | -- | .00 | .01 | .10 | .36 | .46 |
| AUG. 05... | 86 | 0 | 71 | 18 | 17 | -- | -- | 1.1 | .01 | .42 | .58 | 1.0 |
| SEP. 17... | 90 | -- | 74 | 16 | 17 | -- | -- | .02 | .00 | .42 | .68 | 1.1 |
| 30... | 88 | -- | 72 | 11 | 17 | -- | -- | .01 | .00 | .18 | .50 | .68 |

## 01330885 FISH CREEK AT SARATOGA SPRINGS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | .51 | .02 | -- | .01 | 126 | 158 | 99 | 7 | 1 | 90 | 9 |
| NOV. | | | | | | | | | | | |
| 13... | .43 | .01 | -- | .00 | 125 | 167 | 138 | 6 | 4 | 88 | 8 |
| JAN. | | | | | | | | | | | |
| 21... | .66 | .04 | -- | .02 | 135 | 154 | 129 | 0 | 0 | 98 | 20 |
| FEB. | | | | | | | | | | | |
| 19... | 2.2 | .02 | -- | .02 | 128 | 139 | 111 | 5 | 4 | 93 | 21 |
| MAR. | | | | | | | | | | | |
| 18... | .60 | .02 | -- | .01 | 120 | 140 | 113 | 7 | 4 | 85 | 17 |
| APR. | | | | | | | | | | | |
| 15... | .54 | .03 | -- | .01 | 111 | 128 | 100 | 5 | 4 | 76 | 14 |
| MAY | | | | | | | | | | | |
| 13... | .41 | .01 | .00 | -- | -- | 137 | 86 | 8 | 0 | -- | -- |
| JUNE | | | | | | | | | | | |
| 10... | 3.5 | .02 | .01 | -- | -- | 135 | 103 | 2 | 0 | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | .47 | .02 | .00 | -- | -- | 143 | 109 | 6 | 4 | -- | -- |
| AUG. | | | | | | | | | | | |
| 05... | 2.1 | .02 | .02 | -- | -- | 142 | 107 | 8 | 5 | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | 1.1 | .04 | .01 | -- | -- | 141 | 94 | 2 | 0 | -- | -- |
| 30... | .69 | .03 | .01 | -- | -- | 140 | 115 | 7 | 4 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 239 | 7.6 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 13... | 239 | 7.8 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 21... | 255 | 7.4 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 19... | 247 | 7.4 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 18... | 216 | 7.3 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 15... | 198 | 7.7 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 13... | 210 | 7.8 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 10... | 221 | 8.2 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | 226 | 8.7 | 3 | 2 | 12 | -- | -- | 0 | 10 | 4 | <.5 |
| AUG. | | | | | | | | | | | |
| 05... | 201 | 8.3 | 3 | 7 | 23 | 5.9 | -- | 1 | 0 | 7 | <.5 |
| SEP. | | | | | | | | | | | |
| 17... | 222 | -- | 2 | 5 | 21 | 7.0 | -- | -- | -- | -- | -- |
| 30... | 222 | -- | 5 | 5 | 20 | 8.7 | -- | -- | -- | -- | -- |

## 01330915 FISH CREEK AT SCHUYLERVILLE, N.Y.

LOCATION.--Lat 43°05'50", long 73°34'39", Saratoga County, 200 ft (61 m) upstream from mouth in Schuylerville and 0.3 mi (0.5 km) downstream from U.S. Highway 4.

DRAINAGE AREA.--252 $\text{mi}^2$ (653 $\text{km}^2$).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1115 | 2.3 | 230 | 50 | -- | 26 | -- | 7.2 | -- | 12 | -- | 1.7 |
| NOV. 13... | 1115 | .8 | 100 | 30 | -- | 25 | -- | 7.3 | -- | 12 | -- | 1.4 |
| FEB. 19... | 1300 | 2.8 | 0 | 40 | -- | 26 | -- | 7.0 | -- | 10 | -- | 1.3 |
| MAR. 18... | 1105 | 3.9 | 440 | 40 | -- | 25 | -- | 6.0 | -- | 8.9 | -- | 1.4 |
| APR. 15... | 1125 | 2.2 | 800 | 40 | -- | 24 | -- | 5.2 | -- | 8.5 | -- | 2.0 |
| MAY 13... | 1200 | 2.3 | 2900 | 100 | 16 | -- | 6.1 | -- | 7.0 | -- | 1.5 | -- |
| JUNE 10... | 1250 | 1.2 | 360 | 70 | 25 | -- | 6.9 | -- | 10 | -- | 1.1 | -- |
| JULY 09... | 1420 | -- | 280 | 70 | 23 | -- | 6.4 | -- | 10 | -- | 1.1 | -- |
| AUG. 05... | 1415 | -- | 320 | 80 | 26 | -- | 7.0 | -- | 10 | -- | 1.5 | -- |
| SEP. 17... | 1300 | -- | 330 | 80 | 26 | -- | 6.7 | -- | 9.8 | -- | 1.2 | -- |
| 30... | 1130 | -- | 850 | 100 | 25 | -- | 6.7 | -- | 8.7 | -- | 1.6 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 105 | 0 | 86 | 16 | 16 | -- | .3 | .83 | .00 | .00 | .27 | .27 |
| NOV. 13... | 98 | 0 | 80 | 15 | 17 | -- | .3 | .16 | .00 | .00 | .24 | .24 |
| FEB. 19... | 89 | 0 | 73 | 21 | 17 | -- | .1 | .29 | .02 | .09 | .21 | .30 |
| MAR. 18... | 79 | 0 | 65 | 19 | 15 | -- | .2 | .44 | .03 | .10 | .22 | .32 |
| APR. 15... | 76 | 0 | 62 | 18 | 14 | -- | .1 | .30 | .04 | .19 | .27 | .46 |
| MAY 13... | 66 | 0 | 54 | 18 | 11 | .1 | -- | .32 | .03 | .08 | .50 | .58 |
| JUNE 10... | 90 | 0 | 74 | 17 | 16 | .1 | -- | .06 | .01 | .08 | .46 | .54 |
| JULY 09... | 82 | 0 | 67 | 18 | 16 | -- | -- | .03 | .01 | .21 | .34 | .55 |
| AUG. 05... | 88 | 0 | 72 | 19 | 17 | -- | -- | .08 | .01 | .72 | .27 | .99 |
| SEP. 17... | 89 | -- | 73 | 16 | 16 | -- | -- | .13 | .02 | .46 | .64 | 1.1 |
| 30... | 90 | -- | 74 | 12 | 15 | -- | -- | .21 | .00 | .28 | .44 | .72 |

## 01330915 FISH CREEK AT SCHUYLERVILLE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1.1 | .19 | -- | .07 | 133 | 162 | 100 | 8 | 0 | 95 | 8 |
| NOV. 13... | .41 | .01 | -- | .01 | 127 | 206 | 165 | 11 | 4 | 92 | 12 |
| FEB. 19... | .61 | .02 | -- | .01 | 129 | 148 | 122 | 6 | 4 | 94 | 21 |
| MAR. 18... | .79 | .05 | -- | .01 | 118 | 145 | 123 | 13 | 13 | 87 | 22 |
| APR. 15... | .80 | .05 | -- | .03 | 112 | 155 | 122 | 36 | 36 | 81 | 19 |
| MAY 13... | .93 | .11 | .05 | -- | -- | 201 | 132 | 86 | 67 | -- | -- |
| JUNE 10... | .61 | .03 | .02 | -- | -- | 144 | 113 | 7 | 4 | -- | -- |
| JULY 09... | .59 | .05 | .02 | -- | -- | 158 | 108 | 8 | 7 | -- | -- |
| AUG. 05... | 1.1 | .07 | .03 | -- | -- | 148 | 108 | 20 | 14 | -- | -- |
| SEP. 17... | 1.3 | .07 | .02 | -- | -- | 153 | 114 | 12 | 6 | -- | -- |
| 30... | .93 | .07 | .02 | -- | -- | 169 | 137 | 24 | 22 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 256 | 7.2 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| NOV. 13... | 241 | 7.7 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| FEB. 19... | 248 | 7.6 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| MAR. 18... | 213 | 7.5 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| APR. 15... | 197 | 7.6 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| MAY 13... | 184 | 7.5 | -- | -- | 20 | -- | .0 | -- | -- | -- | -- |
| JUNE 10... | 230 | 7.7 | -- | -- | 13 | -- | .0 | 2 | 0 | 3 | <.5 |
| JULY 09... | 227 | 7.7 | 5 | 4 | 12 | -- | -- | -- | -- | -- | -- |
| AUG. 05... | 196 | 7.5 | 2 | 10 | 21 | 5.9 | -- | <1 | 0 | 4 | <.5 |
| SEP. 17... | 218 | -- | 2 | 8 | 20 | 6.9 | -- | -- | -- | -- | -- |
| 30... | 222 | -- | 20 | 20 | 23 | 11 | -- | -- | -- | -- | -- |

## 01331095 HUDSON RIVER AT STILLWATER, N.Y.

LOCATION.--Lat 42°56'16", long 73°39'04", Saratoga and Rensselaer Counties, at bridge on State Highway 67 in Stillwater and 0.9 mi (1.4 km) upstream from Hoosic River.

DRAINAGE AREA.--3,773 $mi^2$ (9,772 $km^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | 1200 | 4.8 | 250 | 40 | -- | 12 | -- | 3.0 | -- | 6.5 | -- | .7 |
| 30... | 1125 | 4.6 | 280 | 40 | -- | 9.5 | -- | 2.4 | -- | 6.5 | -- | .6 |
| DEC. | | | | | | | | | | | | |
| 03... | 1335 | 4.3 | 240 | 20 | -- | 9.4 | -- | 2.1 | -- | 4.0 | -- | .7 |
| JAN. | | | | | | | | | | | | |
| 08... | 1245 | 5.0 | 240 | 20 | -- | 9.5 | -- | 2.2 | -- | 3.1 | -- | .6 |
| FEB. | | | | | | | | | | | | |
| 04... | 1400 | 4.7 | 300 | 40 | -- | 9.5 | -- | 2.2 | -- | 3.1 | -- | .5 |
| MAR. | | | | | | | | | | | | |
| 04... | 1225 | 5.1 | 190 | 40 | -- | 9.7 | -- | 2.3 | -- | 3.1 | -- | .7 |
| 18... | 1030 | 3.4 | 2100 | 180 | -- | 15 | -- | 4.3 | -- | 4.7 | -- | 1.4 |
| APR. | | | | | | | | | | | | |
| 02... | 1445 | 5.3 | 350 | 50 | -- | 16 | -- | 4.0 | -- | 6.5 | -- | .9 |
| 15... | 1030 | 4.6 | 480 | 30 | -- | 12 | -- | 2.6 | -- | 3.5 | -- | 1.4 |
| MAY | | | | | | | | | | | | |
| 13... | 1140 | 5.1 | 2200 | 80 | 11 | -- | 3.0 | -- | 3.0 | -- | .9 | -- |
| JUNE | | | | | | | | | | | | |
| 10... | 1215 | 4.7 | 250 | 50 | 10 | -- | 2.0 | -- | 4.9 | -- | .7 | -- |
| JULY | | | | | | | | | | | | |
| 09... | 1345 | -- | 240 | 50 | 10 | -- | 2.0 | -- | 3.7 | -- | .7 | -- |
| AUG. | | | | | | | | | | | | |
| 05... | 1330 | -- | 1900 | 120 | 14 | -- | 2.8 | -- | 3.2 | -- | 1.1 | -- |
| SEP. | | | | | | | | | | | | |
| 17... | 1410 | -- | 250 | 50 | 13 | -- | 2.5 | -- | 4.1 | -- | .7 | -- |
| 30... | 1100 | -- | 520 | 70 | 17 | -- | 3.7 | -- | 4.5 | -- | .9 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | 30 | 0 | 25 | 17 | 6.3 | -- | .3 | .99 | .00 | .01 | .29 | .30 |
| 30... | 23 | 0 | 19 | 18 | 5.5 | -- | .3 | .92 | .01 | .01 | .28 | .29 |
| DEC. | | | | | | | | | | | | |
| 03... | 21 | 0 | 17 | 12 | 7.0 | -- | .3 | .58 | .00 | .00 | .17 | .17 |
| JAN. | | | | | | | | | | | | |
| 08... | 28 | 0 | 23 | 12 | 4.3 | -- | .3 | .35 | .00 | .15 | .15 | .30 |
| FEB. | | | | | | | | | | | | |
| 04... | 24 | 0 | 20 | 15 | 4.5 | -- | .1 | .59 | .01 | .17 | .23 | .40 |
| MAR. | | | | | | | | | | | | |
| 04... | 26 | 0 | 21 | 14 | 4.5 | -- | .2 | .60 | .02 | .27 | .14 | .41 |
| 18... | 50 | 0 | 41 | 14 | 7.6 | -- | .2 | .68 | .03 | .19 | .15 | .34 |
| APR. | | | | | | | | | | | | |
| 02... | 48 | 0 | 39 | 19 | 8.0 | -- | .1 | .77 | .01 | .53 | .33 | .86 |
| 15... | 36 | 0 | 30 | 13 | 5.5 | -- | .1 | .49 | .00 | .25 | .17 | .42 |
| MAY | | | | | | | | | | | | |
| 13... | 29 | 0 | 24 | 14 | 4.8 | .1 | -- | .41 | .02 | .08 | .25 | .33 |
| JUNE | | | | | | | | | | | | |
| 10... | 32 | 0 | 26 | 14 | 4.7 | .1 | -- | .56 | .02 | .15 | .35 | .50 |
| JULY | | | | | | | | | | | | |
| 09... | 24 | 0 | 20 | 13 | 4.1 | -- | -- | .24 | .01 | .19 | .27 | .46 |
| AUG. | | | | | | | | | | | | |
| 05... | 27 | 0 | 22 | 14 | 4.9 | -- | -- | .26 | .01 | .37 | .30 | .67 |
| SEP. | | | | | | | | | | | | |
| 17... | 33 | -- | 27 | 15 | 4.5 | -- | -- | .36 | .03 | .48 | .25 | .73 |
| 30... | 39 | -- | 32 | 13 | 4.9 | -- | -- | .39 | .01 | .28 | .28 | .56 |

### 01331095 HUDSON RIVER AT STILLWATER, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 1.3 | .01 | -- | .00 | 65 | 80 | 41 | 3 | 8 | 42 | 10 |
| 30... | 1.2 | .01 | -- | .00 | 59 | 73 | 58 | 0 | 0 | 34 | 15 |
| DEC. | | | | | | | | | | | |
| 03... | .75 | .01 | -- | .01 | 50 | 58 | 39 | 5 | 5 | 32 | 15 |
| JAN. | | | | | | | | | | | |
| 08... | .66 | .01 | -- | .00 | 51 | 74 | 54 | 8 | 8 | 33 | 10 |
| FEB. | | | | | | | | | | | |
| 04... | 1.0 | .02 | -- | .00 | 51 | 68 | 40 | 8 | 6 | 33 | 13 |
| MAR. | | | | | | | | | | | |
| 04... | 1.0 | .01 | -- | .00 | 52 | 67 | 51 | 17 | 12 | 36 | 12 |
| 18... | 1.0 | .08 | -- | .04 | 75 | 145 | 120 | 37 | 30 | 55 | 14 |
| APR. | | | | | | | | | | | |
| 02... | 1.6 | .02 | -- | .01 | 83 | 101 | 67 | 6 | 5 | 56 | 17 |
| 15... | .91 | .02 | -- | .01 | 60 | 89 | 63 | 16 | 11 | 41 | 11 |
| MAY | | | | | | | | | | | |
| 13... | .76 | .05 | .02 | -- | -- | 117 | 76 | 48 | 38 | -- | -- |
| JUNE | | | | | | | | | | | |
| 10... | 1.1 | .02 | .00 | -- | -- | 71 | 49 | 5 | 3 | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | .71 | .02 | .00 | -- | -- | 72 | 46 | 8 | 6 | -- | -- |
| AUG. | | | | | | | | | | | |
| 05... | .94 | .02 | .00 | -- | -- | 69 | 41 | 10 | 8 | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | 1.1 | .03 | .02 | -- | -- | 78 | -- | 4 | 4 | -- | -- |
| 30... | .96 | .02 | .01 | -- | -- | 95 | 79 | 13 | 11 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 119 | 6.8 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| 30... | 110 | 6.8 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 03... | 83 | 6.5 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 08... | 90 | 7.1 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 04... | 96 | 7.1 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 04... | 97 | 6.9 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| 18... | 141 | 7.5 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | 162 | 7.2 | -- | -- | 22 | -- | .0 | -- | -- | -- | -- |
| 15... | 109 | 7.2 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 13... | 92 | 7.3 | -- | -- | 13 | -- | .0 | <1 | 10 | 4 | <.5 |
| JUNE | | | | | | | | | | | |
| 10... | 103 | 7.0 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | 93 | 7.2 | 20 | 3 | 15 | -- | -- | 0 | 10 | 4 | <.5 |
| AUG. | | | | | | | | | | | |
| 05... | 84 | 6.7 | 3 | 5 | 18 | 5.2 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | 106 | -- | 8 | 5 | 16 | -- | -- | -- | -- | -- | -- |
| 30... | 126 | -- | 7 | 9 | 16 | 6.9 | -- | -- | -- | -- | -- |

## 01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y.-Bennington County-Vt., at bridge on New York-Vermont State Highway 346, at state line, and 1.3 mi (2.1 km) northwest of North Pownal, Vt.

DRAINAGE AREA.--302 mi$^2$ (782 km$^2$).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 0900 | 359 | 1.7 | 320 | 140 | -- | 36 | -- | 11 | -- | 31 | -- |
| NOV. 13... | 1000 | 363 | 3.9 | 0 | 0 | -- | 27 | -- | 9.7 | -- | 17 | -- |
| JAN. 22... | 0930 | 918 | 3.6 | 1200 | 280 | -- | 24 | -- | 6.5 | -- | 30 | -- |
| MAR. 18... | 1230 | 890 | 3.3 | 360 | 160 | -- | 18 | -- | 4.6 | -- | 7.2 | -- |
| APR. 15... | 1015 | E6400 | 2.4 | 5200 | 270 | -- | 12 | -- | 3.2 | -- | 3.0 | -- |
| MAY 14... | 0920 | 1650 | 3.7 | 1000 | 60 | 14 | -- | 4.0 | -- | 4.0 | -- | .8 |
| JUNE 11... | 0930 | 296 | 2.0 | 420 | 90 | 28 | -- | 7.8 | -- | 11 | -- | 1.2 |
| JULY 08... | 1020 | 382 | -- | 930 | 140 | 24 | -- | 6.6 | -- | 6.8 | -- | 1.2 |
| AUG. 14... | 0930 | 106 | -- | 350 | 130 | 40 | -- | 11 | -- | 24 | -- | 2.0 |
| SEP. 04... | 1030 | -- | -- | 930 | 170 | 21 | -- | 6.4 | -- | 6.5 | -- | 1.2 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 3.5 | 170 | 0 | 139 | 23 | 27 | -- | .3 | 1.6 | .00 | .01 | .31 |
| NOV. 13... | 2.0 | 120 | 0 | 98 | 23 | 19 | -- | .2 | 1.6 | .00 | .00 | .57 |
| JAN. 22... | 1.2 | 79 | 0 | 65 | 21 | 45 | -- | .1 | .90 | .07 | .32 | .58 |
| MAR. 18... | 1.0 | 58 | 0 | 48 | 16 | 11 | -- | .2 | .75 | .00 | .24 | .17 |
| APR. 15... | 1.9 | 36 | 0 | 30 | 13 | 5.3 | -- | .1 | .42 | .03 | .40 | .48 |
| MAY 14... | -- | 50 | 0 | 41 | 11 | 5.7 | .1 | -- | .50 | .04 | .10 | .16 |
| JUNE 11... | -- | 102 | 0 | 84 | 18 | 16 | .1 | -- | .58 | .08 | .13 | .49 |
| JULY 08... | -- | 90 | 0 | 74 | 17 | 9.2 | -- | -- | .53 | .05 | .15 | .27 |
| AUG. 14... | -- | 138 | -- | 113 | 25 | 29 | -- | -- | 1.1 | .19 | .56 | .14 |
| SEP. 04... | -- | 81 | -- | 66 | 14 | 8.9 | -- | -- | .46 | .02 | .28 | .25 |

E Estimated value.

## 01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.—Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>16... | .32 | 1.9 | .28 | -- | .21 | 216 | 259 | 190 | 8 | 1 | 130 | 8 |
| NOV.<br>13... | .57 | 2.2 | .01 | -- | .01 | 161 | -- | -- | 10 | 5 | 110 | 9 |
| JAN.<br>22... | .90 | 1.9 | .45 | -- | .07 | 170 | 236 | 184 | 44 | 3 | 87 | 22 |
| MAR.<br>18... | .41 | 1.2 | .04 | -- | .01 | 90 | 116 | 96 | 11 | 10 | 64 | 16 |
| APR.<br>15... | .88 | 1.3 | .24 | -- | .05 | 59 | 293 | 249 | 224 | 197 | 43 | 14 |
| MAY<br>14... | .26 | .80 | .08 | .03 | -- | -- | 112 | 75 | 32 | 25 | -- | -- |
| JUNE<br>11... | .62 | 1.3 | .09 | .05 | -- | -- | 171 | 136 | 9 | 8 | -- | -- |
| JULY<br>08... | .42 | 1.0 | .09 | .04 | -- | -- | 152 | 113 | 14 | 13 | -- | -- |
| AUG.<br>14... | .70 | 2.0 | .18 | .13 | -- | -- | 253 | 210 | 16 | 10 | -- | -- |
| SEP.<br>04... | .53 | 1.0 | .08 | .03 | -- | -- | 159 | 115 | 30 | 23 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>16... | 409 | 7.9 | -- | -- | 7 | -- | .0 | -- | -- | -- | -- |
| NOV.<br>13... | 311 | 7.5 | -- | -- | 7 | -- | .0 | -- | -- | -- | -- |
| JAN.<br>22... | 331 | 7.3 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| MAR.<br>18... | 172 | 7.4 | -- | -- | 8 | -- | .0 | -- | -- | -- | -- |
| APR.<br>15... | 101 | 7.3 | -- | -- | 40 | -- | .0 | -- | -- | -- | -- |
| MAY<br>14... | 131 | 7.4 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| JUNE<br>11... | 258 | 7.6 | -- | -- | 8 | -- | .0 | <1 | 20 | 23 | <.5 |
| JULY<br>08... | 214 | 7.6 | 1 | 6 | 14 | -- | -- | -- | -- | -- | -- |
| AUG.<br>14... | 335 | -- | 2 | 5 | 13 | 3.8 | -- | <1 | 0 | 21 | <.5 |
| SEP.<br>04... | 184 | -- | 9 | 20 | 16 | 5.9 | -- | -- | -- | -- | -- |

## 01335400 HOOSIC RIVER NEAR STILLWATER, N.Y.

LOCATION.--Lat 42°55'56", long 73°39'07", Rensselaer County, off north bank 0.5 mi (0.8 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Stillwater and 2.8 mi (4.5 km) downstream from Tomhannock Creek.

DRAINAGE AREA.--713 mi² (1,847 km²).

PERIOD OF RECORD.--Chemical analyses: February 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. | | | | | | | | | | | | |
| 21... | 1400 | 4.7 | 190 | 60 | -- | 28 | -- | 8.6 | -- | 12 | -- | 1.3 |
| FEB. | | | | | | | | | | | | |
| 19... | 1400 | 3.9 | 20 | 60 | -- | 25 | -- | 7.5 | -- | 9.8 | -- | 1.2 |
| APR. | | | | | | | | | | | | |
| 15... | 1050 | 3.1 | 2100 | 120 | -- | 15 | -- | 3.6 | -- | 3.9 | -- | 1.6 |
| MAY | | | | | | | | | | | | |
| 13... | 1115 | 2.7 | 2200 | 180 | 14 | -- | 5.2 | -- | 4.7 | -- | 1.1 | -- |
| JUNE | | | | | | | | | | | | |
| 10... | 1125 | .1 | 150 | 50 | 28 | -- | 7.7 | -- | 8.0 | -- | 1.4 | -- |
| JULY | | | | | | | | | | | | |
| 09... | 1315 | -- | 310 | 40 | 27 | -- | 6.4 | -- | 6.0 | -- | 1.4 | -- |
| AUG. | | | | | | | | | | | | |
| 05... | 1250 | -- | 50 | 30 | 26 | -- | 8.9 | -- | 11 | -- | 1.6 | -- |
| SEP. | | | | | | | | | | | | |
| 17... | 1430 | -- | 380 | 60 | 22 | -- | 6.1 | -- | 5.5 | -- | 1.4 | -- |
| 30... | 1045 | -- | 1000 | 120 | 24 | -- | 7.0 | -- | 6.2 | -- | 1.8 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. | | | | | | | | | | | | |
| 21... | 107 | 0 | 88 | 20 | 16 | -- | .1 | 1.3 | .04 | .32 | .08 | .40 |
| FEB. | | | | | | | | | | | | |
| 19... | 95 | 0 | 78 | 19 | 14 | -- | .1 | 1.2 | .01 | .19 | .17 | .36 |
| APR. | | | | | | | | | | | | |
| 15... | 54 | 0 | 44 | 11 | 6.8 | -- | .1 | .56 | .05 | .10 | .25 | .35 |
| MAY | | | | | | | | | | | | |
| 13... | 64 | 0 | 53 | 12 | 6.5 | .2 | -- | .44 | .03 | .06 | .50 | .56 |
| JUNE | | | | | | | | | | | | |
| 10... | 98 | 1 | 82 | 16 | 10 | .1 | -- | .19 | .02 | .07 | .40 | .47 |
| JULY | | | | | | | | | | | | |
| 09... | 81 | 0 | 66 | 16 | 7.7 | -- | -- | .41 | .02 | .15 | .37 | .52 |
| AUG. | | | | | | | | | | | | |
| 05... | 86 | 0 | 71 | 18 | 17 | -- | -- | .17 | .02 | .32 | .30 | .62 |
| SEP. | | | | | | | | | | | | |
| 17... | 79 | -- | 65 | 13 | 7.3 | -- | -- | .45 | .01 | .19 | .29 | .48 |
| 30... | 86 | -- | 71 | 8.9 | 9.0 | -- | -- | .50 | .01 | .18 | .22 | .40 |

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. | | | | | | | | | | | |
| 21... | 1.7 | .13 | -- | .11 | 144 | 162 | 132 | 12 | 8 | 110 | 18 |
| FEB. | | | | | | | | | | | |
| 19... | 1.6 | .06 | -- | .06 | 127 | 144 | 117 | 11 | 9 | 93 | 15 |
| APR. | | | | | | | | | | | |
| 15... | .96 | .09 | -- | .03 | 72 | 228 | 205 | 70 | 68 | 52 | 8 |
| MAY | | | | | | | | | | | |
| 13... | 1.0 | .12 | .03 | -- | -- | 173 | 122 | 79 | 67 | -- | -- |
| JUNE | | | | | | | | | | | |
| 10... | .68 | .03 | .02 | -- | -- | 120 | 87 | 2 | 0 | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | .95 | .06 | .02 | -- | -- | 138 | 101 | 9 | 6 | -- | -- |
| AUG. | | | | | | | | | | | |
| 05... | .81 | .03 | .01 | -- | -- | 139 | 103 | 17 | 3 | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | .94 | .07 | .03 | -- | -- | 134 | 89 | 18 | 12 | -- | -- |
| 30... | .91 | .09 | .04 | -- | -- | 150 | 131 | 26 | 21 | -- | -- |

## 01335400 HOOSIC RIVER NEAR STILLWATER, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. | | | | | | | | | | | |
| 21... | 271 | 7.6 | -- | -- | 5 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 19... | 249 | 7.7 | -- | -- | 6 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 15... | 137 | 7.5 | -- | -- | 17 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 13... | 159 | 7.6 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 10... | 207 | 9.6 | -- | -- | 9 | -- | .0 | 1 | 0 | 2 | <.5 |
| JULY | | | | | | | | | | | |
| 09... | 208 | 8.9 | 2 | 4 | 9 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 05... | 195 | 8.9 | 3 | 5 | 14 | 3.3 | -- | <1 | 0 | 7 | <.5 |
| SEP. | | | | | | | | | | | |
| 17... | 173 | -- | 4 | 10 | 14 | 5.1 | -- | -- | -- | -- | -- |
| 30... | 197 | -- | 2 | 20 | 14 | 7.4 | -- | -- | -- | -- | -- |

## 01335770 HUDSON RIVER AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'34", Saratoga County, at Waterford water supply intake on west shore and 0.3 mi (0.5 km) upstream from bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,620 mi² (11,966 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 1235 | E4200 | 4.8 | 390 | 390 | -- | 12 | -- | 3.1 | -- | 7.0 |
| 30... | 1200 | E4650 | 3.8 | 420 | 60 | -- | 13 | -- | 3.3 | -- | 7.5 |
| DEC. | | | | | | | | | | | |
| 03... | 1300 | E3160 | 4.1 | 390 | 40 | -- | 12 | -- | 2.9 | -- | 5.2 |
| JAN. | | | | | | | | | | | |
| 08... | 1130 | E11300 | 4.9 | 300 | 40 | -- | 12 | -- | 3.9 | -- | 4.0 |
| FEB. | | | | | | | | | | | |
| 04... | 1245 | E12300 | 4.7 | 110 | 40 | -- | 13 | -- | 2.7 | -- | 3.5 |
| MAR. | | | | | | | | | | | |
| 04... | 1145 | E11000 | 5.0 | 210 | 40 | -- | 11 | -- | 2.6 | -- | 3.9 |
| APR. | | | | | | | | | | | |
| 02... | 1400 | E7270 | 4.8 | 410 | 60 | -- | 19 | -- | 4.8 | -- | 7.7 |
| 08... | 1110 | E17800 | 4.9 | 650 | 130 | -- | 11 | -- | 2.4 | -- | 4.4 |
| 22... | 1020 | E13300 | 4.7 | 300 | 40 | -- | 12 | -- | 2.5 | -- | 3.6 |
| MAY | | | | | | | | | | | |
| 07... | 1030 | E12800 | 4.5 | 440 | 50 | 13 | -- | 3.0 | -- | 3.7 | -- |
| 20... | 1110 | E16100 | 4.6 | 390 | 30 | 17 | -- | 3.0 | -- | 3.1 | -- |
| JUNE | | | | | | | | | | | |
| 03... | 1200 | E7280 | 4.7 | 500 | 90 | 15 | -- | 3.1 | -- | 4.9 | -- |
| 17... | 1145 | E4300 | 4.3 | 390 | 70 | 14 | -- | 2.6 | -- | 5.4 | -- |
| JULY | | | | | | | | | | | |
| 01... | 1140 | E5900 | 4.4 | 420 | 50 | 15 | -- | 2.9 | -- | 5.5 | -- |
| 15... | 1130 | E3290 | -- | 460 | 110 | 21 | -- | 3.2 | -- | 5.0 | -- |
| 29... | 1130 | E3930 | -- | 400 | 70 | 13 | -- | 3.0 | -- | 5.3 | -- |
| AUG. | | | | | | | | | | | |
| 12... | 1145 | E3860 | -- | 380 | 80 | 15 | -- | 2.7 | -- | 3.4 | -- |
| 27... | 1045 | E4650 | -- | 370 | 70 | 16 | -- | 2.9 | -- | 5.8 | -- |
| SEP. | | | | | | | | | | | |
| 10... | 1145 | E5170 | -- | 320 | 40 | 20 | -- | 3.1 | -- | 5.0 | -- |
| 25... | 1045 | E6300 | -- | 570 | 90 | 18 | -- | 5.3 | -- | 4.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | -- | .8 | 30 | 0 | 25 | 15 | 8.8 | -- | .3 | 1.0 |
| 30... | -- | .7 | 33 | 0 | 27 | 17 | 9.5 | -- | .3 | .90 |
| DEC. | | | | | | | | | | |
| 03... | -- | .8 | 28 | 0 | 23 | 14 | 10 | -- | .3 | .64 |
| JAN. | | | | | | | | | | |
| 08... | -- | .7 | 36 | 0 | 30 | 13 | 6.3 | -- | .2 | .43 |
| FEB. | | | | | | | | | | |
| 04... | -- | .5 | 32 | 0 | 26 | 15 | 6.4 | -- | .3 | .59 |
| MAR. | | | | | | | | | | |
| 04... | -- | .7 | 31 | 0 | 25 | 13 | 6.3 | -- | .2 | .60 |
| APR. | | | | | | | | | | |
| 02... | -- | 1.0 | 57 | 0 | 47 | 20 | 11 | -- | .1 | .76 |
| 08... | -- | .6 | 29 | 0 | 24 | 15 | 5.9 | -- | .2 | .56 |
| 22... | -- | 1.0 | 31 | 0 | 25 | 13 | 6.1 | -- | .1 | .49 |
| MAY | | | | | | | | | | |
| 07... | .6 | -- | 33 | 0 | 27 | 12 | 5.5 | .1 | -- | .45 |
| 20... | .6 | -- | 29 | 0 | 24 | 12 | 5.4 | .1 | -- | .39 |
| JUNE | | | | | | | | | | |
| 03... | .7 | -- | 41 | 0 | 34 | 12 | 10 | .1 | -- | .52 |
| 17... | .7 | -- | 37 | 0 | 30 | 15 | 11 | .2 | -- | .50 |
| JULY | | | | | | | | | | |
| 01... | .7 | -- | 35 | 0 | 29 | 30 | 14 | .1 | -- | .53 |
| 15... | .8 | -- | 34 | 0 | 28 | 18 | 20 | -- | -- | .40 |
| 29... | .7 | -- | 30 | 0 | 25 | 22 | 7.7 | -- | -- | .57 |
| AUG. | | | | | | | | | | |
| 12... | .9 | -- | 29 | -- | 24 | 15 | 10 | -- | -- | .24 |
| 27... | .6 | -- | 25 | -- | 21 | 23 | 10 | -- | -- | .44 |
| SEP. | | | | | | | | | | |
| 10... | 1.0 | -- | 47 | -- | 39 | 15 | 8.8 | -- | -- | .45 |
| 25... | 1.1 | -- | 52 | -- | 43 | 12 | 8.3 | -- | -- | .39 |

E Estimated value.

01335770 HUDSON RIVER AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL RESI- DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | .00 | .00 | .28 | .28 | 1.3 | .01 | -- | .00 | 67 | -- |
| 30... | .00 | .00 | .29 | .29 | 1.2 | .01 | -- | .01 | 71 | 95 |
| DEC. | | | | | | | | | | |
| 03... | .00 | .00 | .21 | .21 | .85 | .02 | -- | .01 | 63 | 114 |
| JAN. | | | | | | | | | | |
| 08... | .00 | .16 | .09 | .25 | .69 | .01 | -- | .00 | 63 | 87 |
| FEB. | | | | | | | | | | |
| 04... | .01 | .13 | .11 | .24 | .84 | .00 | -- | .00 | 66 | 80 |
| MAR. | | | | | | | | | | |
| 04... | .02 | .28 | .22 | .50 | 1.1 | .02 | -- | .00 | 58 | 74 |
| APR. | | | | | | | | | | |
| 02... | .03 | .35 | .22 | .57 | 1.4 | .02 | -- | .01 | 97 | 114 |
| 08... | .05 | .14 | .27 | .41 | 1.0 | .03 | -- | .01 | 59 | 64 |
| 22... | .01 | .21 | .11 | .32 | .82 | .02 | -- | .01 | 58 | 73 |
| MAY | | | | | | | | | | |
| 07... | .01 | .02 | .20 | .22 | .68 | .03 | .01 | -- | -- | 83 |
| 20... | .05 | .07 | .86 | .93 | 1.4 | .02 | .00 | -- | -- | 84 |
| JUNE | | | | | | | | | | |
| 03... | .01 | .08 | .29 | .37 | .90 | .03 | .00 | -- | -- | 94 |
| 17... | .01 | .20 | .29 | .49 | 1.0 | .02 | .00 | -- | -- | 104 |
| JULY | | | | | | | | | | |
| 01... | .03 | .09 | .34 | .43 | .99 | .04 | .01 | -- | -- | 106 |
| 15... | .01 | .33 | .37 | .70 | 1.1 | .04 | .01 | -- | -- | 150 |
| 29... | .03 | .39 | .33 | .72 | 1.3 | .03 | .01 | -- | -- | 91 |
| AUG. | | | | | | | | | | |
| 12... | .01 | .42 | .14 | .56 | .81 | .05 | .02 | -- | -- | 208 |
| 27... | .01 | .72 | .03 | .75 | 1.2 | 4.4 | 3.9 | -- | -- | 132 |
| SEP. | | | | | | | | | | |
| 10... | .01 | .27 | .28 | .55 | 1.0 | .04 | .01 | -- | -- | 107 |
| 25... | .01 | .30 | .15 | .45 | .85 | .03 | .03 | -- | -- | 113 |

| DATE | RESIDUE ON IGNI- TION (MG/L) | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | FIXED NON- FILT- RABLE RESIDUE (MG/L) | HARD- NESS (CA,MG) (MG/L) | NON- CAR- BONATE HARD- NESS (MG/L) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | COLOR (PLAT- INUM- COBALT UNITS) | TUR- BID- ITY (JTU) | CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | -- | -- | -- | 43 | 18 | -- | 6.7 | -- | -- | 14 |
| 30... | 90 | 7 | 3 | 46 | 19 | 140 | 6.8 | -- | -- | 14 |
| DEC. | | | | | | | | | | |
| 03... | 99 | 6 | 5 | 42 | 19 | 115 | 6.7 | -- | -- | 11 |
| JAN. | | | | | | | | | | |
| 08... | 62 | 10 | 8 | 46 | 16 | 112 | 7.2 | -- | -- | 11 |
| FEB. | | | | | | | | | | |
| 04... | 54 | 6 | 5 | 44 | 17 | 115 | 7.1 | -- | -- | 10 |
| MAR. | | | | | | | | | | |
| 04... | 58 | 13 | 8 | 38 | 13 | 113 | 7.1 | -- | -- | 14 |
| APR. | | | | | | | | | | |
| 02... | 79 | 8 | 8 | 67 | 20 | 179 | 7.3 | -- | -- | 15 |
| 08... | 52 | 17 | 13 | 37 | 14 | 105 | 7.0 | -- | -- | 13 |
| 22... | 57 | 6 | 6 | 40 | 15 | 104 | 7.0 | -- | -- | 16 |
| MAY | | | | | | | | | | |
| 07... | 43 | 14 | 10 | -- | -- | 108 | 7.4 | -- | -- | -- |
| 20... | 60 | 18 | 15 | -- | -- | 89 | 7.4 | -- | -- | 15 |
| JUNE | | | | | | | | | | |
| 03... | 65 | 6 | 5 | -- | -- | 135 | 7.5 | -- | -- | 11 |
| 17... | 75 | 5 | 0 | -- | -- | 147 | 7.3 | -- | -- | 11 |
| JULY | | | | | | | | | | |
| 01... | 70 | 9 | 7 | -- | -- | 142 | 7.0 | -- | -- | 25 |
| 15... | 98 | 10 | 6 | -- | -- | 183 | 6.5 | 6 | 4 | 15 |
| 29... | 59 | 14 | 12 | -- | -- | 117 | 6.8 | 5 | 4 | 18 |
| AUG. | | | | | | | | | | |
| 12... | 140 | 12 | 11 | -- | -- | -- | -- | 7 | 4 | 19 |
| 27... | 90 | 34 | 23 | -- | -- | 157 | -- | 20 | 20 | 29 |
| SEP. | | | | | | | | | | |
| 10... | 99 | 3 | 1 | -- | -- | 149 | -- | 4 | 5 | 14 |
| 25... | 97 | 16 | 5 | -- | -- | 159 | -- | 8 | 8 | 20 |

CONTINUED NEXT PAGE

## 01335770 HUDSON RIVER AT WATERFORD, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | CHLOROPHYLL A (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | .0 | -- | 0 | -- | -- | 10 | 16 | 3.4 | -- |
| DEC. | | | | | | | | | | |
| 03... | -- | .0 | -- | <1 | -- | -- | 10 | 9 | .9 | -- |
| JAN. | | | | | | | | | | |
| 08... | -- | .0 | -- | 0 | -- | -- | 15 | 6 | 1.4 | -- |
| FEB. | | | | | | | | | | |
| 04... | -- | .0 | -- | <1 | -- | -- | 10 | 2 | 2.2 | -- |
| MAR. | | | | | | | | | | |
| 04... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 02... | -- | .0 | -- | 1 | -- | -- | 20 | 3 | 2.8 | -- |
| 08... | -- | .0 | -- | 1 | 0 | 0 | 10 | 5 | <.5 | 30 |
| 22... | -- | .0 | -- | 1 | -- | -- | 10 | 5 | <.5 | -- |
| MAY | | | | | | | | | | |
| 07... | -- | .0 | -- | 2 | 0 | <10 | 50 | 6 | <.5 | 50 |
| 20... | -- | -- | -- | 1 | 0 | 10 | 10 | 5 | <.5 | 170 |
| JUNE | | | | | | | | | | |
| 03... | -- | .0 | -- | 1 | 0 | 10 | 10 | 4 | <.5 | 60 |
| 17... | -- | .0 | -- | 1 | 0 | 20 | 10 | 4 | <.5 | 20 |
| JULY | | | | | | | | | | |
| 01... | -- | .0 | -- | <1 | 0 | 10 | 100 | 8 | <.5 | 40 |
| 15... | 5.8 | -- | 2.3 | 1 | 0 | 10 | 20 | 7 | <.5 | 110 |
| 29... | 7.9 | -- | -- | 0 | 1 | 10 | 20 | 7 | <.5 | 0 |
| AUG. | | | | | | | | | | |
| 12... | 6.3 | -- | -- | 1 | 0 | 0 | 10 | 3 | <.5 | 30 |
| 27... | 5.2 | -- | -- | 2 | 1 | <10 | -- | 14 | <.5 | 20 |
| SEP. | | | | | | | | | | |
| 10... | 6.5 | -- | -- | <1 | 1 | 10 | 10 | 6 | <.5 | 80 |
| 25... | 9.7 | -- | -- | 0 | 1 | 10 | 10 | 5 | <.5 | 0 |

### 01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'33", Saratoga County, at New York State Water Quality Surveillance monitor on west bank, 300 ft (91 m) south of bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,620 mi² (11,966 km²).

PERIOD OF RECORD.--Chemical analyses: September 1971 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | 1300 | E4200 | 4.8 | -- | 50 | -- | 14 | -- | 3.1 | -- | 6.5 | -- |
| 30... | 1225 | E4650 | 4.1 | 340 | 40 | -- | 19 | -- | 4.0 | -- | 8.5 | -- |
| DEC. | | | | | | | | | | | | |
| 03... | 1230 | E3160 | 4.3 | 400 | 40 | -- | 15 | -- | 2.8 | -- | 6.7 | -- |
| JAN. | | | | | | | | | | | | |
| 08... | 1100 | E11300 | 4.9 | 370 | 50 | -- | 15 | -- | 3.1 | -- | 4.2 | -- |
| FEB. | | | | | | | | | | | | |
| 04... | 1200 | E12300 | 4.8 | 3000 | 90 | -- | 17 | -- | 3.0 | -- | 3.9 | -- |
| MAR. | | | | | | | | | | | | |
| 04... | 1120 | E11000 | 5.1 | 290 | 80 | -- | 20 | -- | 3.1 | -- | 5.1 | -- |
| APR. | | | | | | | | | | | | |
| 02... | 1325 | E7270 | 5.0 | 580 | 90 | -- | 25 | -- | 5.0 | -- | 8.0 | -- |
| 15... | 1000 | E2170 | 4.4 | 610 | 130 | -- | 19 | -- | 3.0 | -- | 4.9 | -- |
| MAY | | | | | | | | | | | | |
| 13... | 1030 | E25300 | 5.0 | 2300 | 100 | 14 | -- | 3.2 | -- | 4.0 | -- | .9 |
| JUNE | | | | | | | | | | | | |
| 10... | 1030 | E4390 | 4.4 | 110 | 10 | 11 | -- | 1.3 | -- | 5.4 | -- | 1.3 |
| JULY | | | | | | | | | | | | |
| 09... | 1230 | E6710 | -- | 790 | 80 | 22 | -- | 3.0 | -- | 4.7 | -- | .8 |
| AUG. | | | | | | | | | | | | |
| 05... | 1145 | E5660 | -- | 300 | 70 | 14 | -- | 2.8 | -- | 4.0 | -- | 1.0 |
| SEP. | | | | | | | | | | | | |
| 17... | 1520 | E5250 | -- | 1000 | 100 | 21 | -- | 4.2 | -- | 5.1 | -- | .8 |
| 30... | 1000 | E9200 | -- | 550 | 90 | 24 | -- | 4.4 | -- | 6.0 | -- | 1.2 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | .8 | 32 | 0 | 26 | 14 | 14 | -- | .3 | .76 | .00 | .01 | .26 |
| 30... | 1.0 | 40 | 0 | 33 | 19 | 21 | -- | .3 | .94 | .00 | .00 | .35 |
| DEC. | | | | | | | | | | | | |
| 03... | .9 | 28 | 0 | 23 | 15 | 17 | -- | .4 | .69 | .00 | .01 | .22 |
| JAN. | | | | | | | | | | | | |
| 08... | .5 | 33 | 0 | 27 | 16 | 11 | -- | .3 | .43 | .00 | .18 | .15 |
| FEB. | | | | | | | | | | | | |
| 04... | .6 | 33 | 0 | 27 | 17 | 14 | -- | .1 | .63 | .01 | .10 | .47 |
| MAR. | | | | | | | | | | | | |
| 04... | 1.1 | 36 | 0 | 30 | 18 | 17 | -- | .1 | .61 | .02 | .28 | .18 |
| APR. | | | | | | | | | | | | |
| 02... | 1.4 | 60 | 0 | 49 | 27 | 19 | -- | .1 | .76 | .01 | .33 | .27 |
| 15... | 1.7 | 44 | 0 | 36 | 14 | 16 | -- | .1 | .54 | .01 | .18 | .35 |
| MAY | | | | | | | | | | | | |
| 13... | -- | 32 | 0 | 26 | 16 | 9.5 | .1 | -- | .41 | .02 | .11 | .37 |
| JUNE | | | | | | | | | | | | |
| 10... | -- | 29 | 0 | 24 | 16 | 16 | .1 | -- | .57 | .02 | .30 | .90 |
| JULY | | | | | | | | | | | | |
| 09... | -- | 33 | 0 | 27 | 15 | 21 | -- | -- | .32 | .01 | .20 | .36 |
| AUG. | | | | | | | | | | | | |
| 05... | -- | 33 | 0 | 27 | 15 | 13 | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | | |
| 17... | -- | 48 | -- | 39 | 15 | 17 | -- | -- | .44 | .02 | .23 | .37 |
| 30... | -- | 57 | -- | 47 | 12 | 22 | -- | -- | .42 | .01 | .28 | .27 |

E Estimated value.

CONTINUED NEXT PAGE

## 01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 02... | .27 | 1.0 | .03 | -- | .01 | 73 | 95 | 51 | 3 | 5 | 48 | 21 |
| 30... | .35 | 1.3 | .03 | -- | .02 | 97 | 131 | 129 | 2 | 0 | 64 | 31 |
| DEC. | | | | | | | | | | | | |
| 03... | .23 | .92 | .03 | -- | .02 | 76 | 92 | 65 | 8 | 5 | 49 | 26 |
| JAN. | | | | | | | | | | | | |
| 08... | .33 | .77 | .01 | -- | .00 | 71 | 79 | 73 | 10 | 8 | 50 | 23 |
| FEB. | | | | | | | | | | | | |
| 04... | .57 | 1.2 | .05 | -- | .01 | 77 | 160 | 110 | 68 | 58 | 55 | 28 |
| MAR. | | | | | | | | | | | | |
| 04... | .46 | 1.1 | .05 | -- | .02 | 87 | 114 | 85 | 16 | 11 | 63 | 33 |
| APR. | | | | | | | | | | | | |
| 02... | .60 | 1.4 | .02 | -- | .01 | 120 | 154 | 116 | 11 | 10 | 83 | 34 |
| 15... | .53 | 1.1 | .04 | -- | .01 | 85 | 130 | 91 | 22 | 18 | 60 | 24 |
| MAY | | | | | | | | | | | | |
| 13... | .48 | .91 | .07 | .02 | -- | -- | 153 | 103 | 61 | 50 | -- | -- |
| JUNE | | | | | | | | | | | | |
| 10... | 1.2 | 1.8 | .16 | .09 | -- | -- | 129 | 82 | 28 | 18 | -- | -- |
| JULY | | | | | | | | | | | | |
| 09... | .56 | .89 | .04 | .01 | -- | -- | 147 | 93 | 17 | 12 | -- | -- |
| AUG. | | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | 101 | 62 | 11 | 7 | -- | -- |
| SEP. | | | | | | | | | | | | |
| 17... | .60 | 1.1 | .08 | .03 | -- | -- | 145 | 101 | 23 | 7 | -- | -- |
| 30... | .55 | .98 | .04 | .01 | -- | -- | 148 | 112 | 14 | 10 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 148 | 6.9 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| 30... | 191 | 6.8 | -- | -- | 17 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 03... | 139 | 6.6 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 08... | 132 | 6.9 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 04... | 148 | 6.9 | -- | -- | 33 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 04... | 166 | 7.0 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | 217 | 7.0 | -- | -- | 16 | -- | .0 | -- | -- | -- | -- |
| 15... | 160 | 7.2 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 13... | 131 | 7.3 | -- | -- | 15 | -- | .0 | 0 | 20 | 17 | <.5 |
| JUNE | | | | | | | | | | | |
| 10... | 105 | 7.1 | -- | -- | 24 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 09... | 171 | 7.2 | 10 | 4 | 17 | -- | -- | 0 | 20 | 8 | <.5 |
| AUG. | | | | | | | | | | | |
| 05... | 116 | 6.9 | 5 | 4 | 20 | 5.6 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 17... | 167 | -- | 8 | 20 | 32 | -- | -- | -- | -- | -- | -- |
| 30... | 196 | -- | 3 | 9 | 17 | 13 | -- | -- | -- | -- | -- |

## 01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, N.Y.

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, temperature recorder at gaging station on right bank at Rome Fish Hatchery, 1.0 mi (1.6 km) downstream from Delta Dam, and 4.0 mi (6.4 km) north of Rome.

DRAINAGE AREA.--150 $mi^2$ (389 $km^2$).

PERIOD OF RECORD.--Water temperatures: October 1960 to September 1962, October 1963 to December 1965, September 1966 to September 1972, April to September 1974.

EXTREMES.--1974:
Water temperatures: Maximum, 16.0°C on June 15, 21, 22, 24-26.

Period of record:
Water temperatures: Maximum, 24.0°C on several days during September 1961 and July 1962; minimum (1960-62, 1963-72), on many days during winter periods 1967, 1971, and 1972.

REMARKS.--Prior to May 1964 water temperature measurements were made at Delta Dam, 1 mile upstream from present site. Thermograph installed September 1966. No record Apr. 1.

TEMPERATURE (°C) OF WATER, APRIL TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | --- | --- | 8.0 | 7.0 | 13.5 | 13.5 | 18.5 | 17.5 | 17.0 | 17.0 | 19.0 | 19.0 |
| 2 | 3.0 | 3.0 | 8.0 | 7.5 | 13.5 | 13.5 | 19.0 | 17.5 | 17.5 | 17.0 | 19.0 | 19.0 |
| 3 | 3.5 | 3.0 | 8.0 | 8.0 | 15.0 | 13.5 | 23.5 | 18.0 | 19.5 | 17.5 | 19.0 | 19.0 |
| 4 | 3.0 | 1.5 | 8.5 | 8.0 | 14.0 | 13.5 | 23.5 | 18.0 | 18.0 | 18.0 | 19.0 | 19.0 |
| 5 | 3.0 | 2.0 | 8.5 | 8.0 | 14.0 | 14.0 | 20.5 | 18.0 | 18.0 | 18.0 | 19.0 | 18.5 |
| 6 | 3.5 | 3.0 | 9.5 | 8.0 | 14.0 | 14.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.5 | 18.5 |
| 7 | 3.5 | 3.5 | 9.5 | 9.0 | 14.0 | 14.0 | 23.0 | 17.5 | 18.0 | 18.0 | 18.5 | 18.5 |
| 8 | 3.5 | 3.5 | 9.5 | 9.0 | 14.0 | 14.0 | 19.5 | 18.0 | 18.0 | 18.0 | 18.5 | 18.5 |
| 9 | 3.5 | 3.5 | 10.5 | 9.0 | 14.0 | 14.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.5 | 18.5 |
| 10 | 3.5 | 3.5 | 10.5 | 10.0 | 15.0 | 14.0 | 18.0 | 17.5 | 18.0 | 18.0 | 18.5 | 18.5 |
| 11 | 4.0 | 3.5 | 10.0 | 9.5 | 16.0 | 14.5 | 17.5 | 17.5 | 18.5 | 18.0 | 18.5 | 18.0 |
| 12 | 4.0 | 4.0 | 11.0 | 9.5 | 15.5 | 15.5 | 18.5 | 17.0 | 18.5 | 18.5 | 18.0 | 18.0 |
| 13 | 4.0 | 4.0 | 11.0 | 10.0 | 15.5 | 15.0 | 17.0 | 17.0 | 18.5 | 18.5 | 18.5 | 18.0 |
| 14 | 4.0 | 3.5 | 10.0 | 10.0 | 15.5 | 15.0 | 17.0 | 17.0 | 18.5 | 18.5 | 18.0 | 18.0 |
| 15 | 4.0 | 3.5 | 10.0 | 10.0 | 15.5 | 15.5 | 17.0 | 16.5 | 18.5 | 18.5 | 18.0 | 18.0 |
| 16 | 4.5 | 4.0 | 10.0 | 10.0 | 19.0 | 15.5 | 16.5 | 16.5 | 18.5 | 18.5 | 18.0 | 17.5 |
| 17 | 4.5 | 4.0 | 12.0 | 10.0 | 18.5 | 16.5 | 16.5 | 16.5 | 18.5 | 18.5 | 17.5 | 17.5 |
| 18 | 5.0 | 4.0 | 11.0 | 10.5 | 16.5 | 16.0 | 16.5 | 16.5 | 18.5 | 18.5 | 17.5 | 17.5 |
| 19 | 5.0 | 4.5 | 11.0 | 10.5 | 16.0 | 16.0 | 16.5 | 16.0 | 18.5 | 18.5 | 17.5 | 17.5 |
| 20 | 5.0 | 5.0 | 11.0 | 10.5 | 16.0 | 16.0 | 16.0 | 16.0 | 19.5 | 18.5 | 17.5 | 17.5 |
| 21 | 5.0 | 5.0 | 11.5 | 10.5 | 21.0 | 16.0 | 16.0 | 16.0 | 19.5 | 19.5 | 17.5 | 17.5 |
| 22 | 5.0 | 5.0 | 11.5 | 11.0 | 18.0 | 17.0 | 16.0 | 16.0 | 19.5 | 19.5 | 17.5 | 17.0 |
| 23 | 5.5 | 5.0 | 11.5 | 11.5 | 18.0 | 17.0 | 16.0 | 16.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 24 | 6.0 | 5.5 | 12.5 | 11.5 | 17.5 | 17.5 | 16.0 | 16.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 25 | 6.0 | 6.0 | 12.5 | 12.0 | 20.5 | 17.5 | 16.0 | 16.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 26 | 6.5 | 6.0 | 12.5 | 12.0 | 19.0 | 18.0 | 16.0 | 16.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 27 | 6.5 | 6.5 | 13.0 | 12.0 | 18.0 | 18.0 | 17.0 | 16.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 28 | 6.5 | 6.5 | 15.5 | 12.5 | 18.0 | 18.0 | 17.0 | 16.5 | 19.5 | 19.5 | 17.0 | 17.0 |
| 29 | 7.0 | 6.5 | 13.0 | 12.5 | 18.0 | 18.0 | 17.5 | 17.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 30 | 7.0 | 7.0 | 12.5 | 12.5 | 20.0 | 17.5 | 17.0 | 17.0 | 19.5 | 19.5 | 17.0 | 17.0 |
| 31 | --- | --- | 14.0 | 12.5 | --- | --- | 17.0 | 17.0 | 19.5 | 19.0 | --- | --- |

## 01346495 MOHAWK RIVER ABOVE LITTLE FALLS, N.Y.

LOCATION.--Lat 43°02'05", long 74°51'57", Herkimer County, at Erie (Barge) Canal terminal building on south bank in Little Falls and 0.1 mi (0.2 km) upstream from highway bridge and dams, and 5.2 mi (8.4 km) upstream from gaging station (01347000) near Little Falls.

DRAINAGE AREA.--1,285 mi² (3,328 km²).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>10... | 1230 | E1080 | 4.0 | 860 | 150 | -- | 32 | -- | 6.6 | -- | 8.2 | -- |
| NOV.<br>07... | 1030 | E1400 | 5.4 | 600 | 50 | -- | 29 | -- | 5.0 | -- | 5.5 | -- |
| DEC.<br>11... | 1115 | E7080 | 3.6 | 2100 | 90 | -- | 29 | -- | 5.4 | -- | 4.7 | -- |
| JAN.<br>15... | 1200 | E2690 | 4.2 | 520 | 60 | -- | 25 | -- | 4.3 | -- | 4.6 | -- |
| FEB.<br>13... | 1050 | E2900 | 4.7 | 350 | 250 | -- | 29 | -- | 5.2 | -- | 5.0 | -- |
| MAR.<br>11... | 1130 | E4640 | 3.9 | 580 | 50 | -- | 25 | -- | 4.4 | -- | 4.4 | -- |
| APR.<br>29... | 1215 | E2750 | 3.5 | 460 | 80 | 23 | -- | 4.9 | -- | 3.4 | -- | .7 |
| MAY<br>29... | 1145 | E2040 | 3.7 | 500 | 80 | 31 | -- | 5.6 | -- | 6.3 | -- | 1.0 |
| JUNE<br>24... | 1145 | E1560 | 3.2 | 430 | 60 | 31 | -- | 5.8 | -- | 4.6 | -- | 1.1 |
| JULY<br>22... | 1210 | E1270 | -- | 570 | 110 | 32 | -- | 6.4 | -- | 6.9 | -- | 1.4 |
| AUG.<br>20... | 1045 | E1090 | -- | 380 | 100 | 31 | -- | 5.7 | -- | 6.6 | -- | 1.5 |
| SEP.<br>16... | 1130 | E1640 | -- | 900 | 80 | 33 | -- | 6.4 | -- | 4.8 | -- | 1.6 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>10... | 1.6 | 98 | 0 | 80 | 33 | 11 | -- | .4 | 1.2 | .00 | .03 | .27 |
| NOV.<br>07... | 1.3 | 85 | 0 | 70 | 23 | 8.0 | -- | .3 | .74 | .00 | .00 | .31 |
| DEC.<br>11... | 2.6 | 84 | 0 | 69 | 24 | 6.5 | -- | .2 | .91 | .00 | .01 | .14 |
| JAN.<br>15... | .9 | 71 | 0 | 58 | 21 | 6.1 | -- | .1 | .90 | .10 | .16 | .12 |
| FEB.<br>13... | 1.0 | 83 | 0 | 68 | 22 | 8.3 | -- | .1 | 1.1 | .02 | .16 | .22 |
| MAR.<br>11... | 1.1 | 75 | 0 | 62 | 18 | 7.1 | -- | .1 | .96 | .04 | .19 | .16 |
| APR.<br>29... | -- | 75 | 0 | 62 | 20 | 6.2 | .1 | -- | .91 | .03 | .23 | .21 |
| MAY<br>29... | -- | 100 | 0 | 82 | 18 | 6.0 | .2 | -- | .73 | .03 | .15 | .24 |
| JUNE<br>24... | -- | 98 | 0 | 80 | 22 | 6.7 | .1 | -- | .70 | .04 | .10 | .32 |
| JULY<br>22... | -- | 94 | 0 | 77 | 28 | 10 | -- | -- | .68 | .05 | .24 | .22 |
| AUG.<br>20... | -- | 97 | -- | 80 | 31 | 9.5 | -- | -- | .74 | .07 | .29 | .24 |
| SEP.<br>16... | -- | 108 | -- | 89 | 23 | 6.2 | -- | -- | .49 | .04 | .29 | .22 |

E Estimated value.

## 01346495 MOHAWK RIVER ABOVE LITTLE FALLS, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>10... | .30 | 1.5 | .06 | -- | .03 | 145 | 170 | 117 | 18 | 8 | 110 | 27 |
| NOV.<br>07... | .31 | 1.1 | .04 | -- | .03 | 119 | 188 | 134 | 17 | 7 | 93 | 23 |
| DEC.<br>11... | .15 | 1.1 | .09 | -- | .05 | 118 | 189 | 157 | 28 | 24 | 95 | 26 |
| JAN.<br>15... | .28 | 1.3 | .06 | -- | .02 | 101 | 132 | 111 | 16 | 13 | 80 | 22 |
| FEB.<br>13... | .38 | 1.5 | .04 | -- | .02 | 116 | 139 | 113 | 14 | 13 | 94 | 26 |
| MAR.<br>11... | .35 | 1.3 | .04 | -- | .02 | 101 | 133 | 118 | 27 | 20 | 81 | 19 |
| APR.<br>29... | .44 | 1.4 | .05 | .02 | -- | -- | 147 | 111 | 10 | 10 | -- | -- |
| MAY<br>29... | .39 | 1.2 | .05 | .02 | -- | -- | 148 | 117 | 17 | 10 | -- | -- |
| JUNE<br>24... | .42 | 1.2 | .05 | .03 | -- | -- | 164 | 148 | 9 | 5 | -- | -- |
| JULY<br>22... | .46 | 1.2 | .05 | .03 | -- | -- | 187 | 137 | 18 | 16 | -- | -- |
| AUG.<br>20... | .53 | 1.3 | .07 | .04 | -- | -- | 182 | 161 | 9 | 5 | -- | -- |
| SEP.<br>16... | .51 | 1.0 | .08 | .04 | -- | -- | 186 | 143 | 20 | 16 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>10... | 247 | 7.3 | -- | -- | 8 | -- | .0 | -- | -- | -- | -- |
| NOV.<br>07... | 217 | 7.3 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| DEC.<br>11... | 213 | 7.4 | -- | -- | 17 | -- | .0 | -- | -- | -- | -- |
| JAN.<br>15... | 184 | 7.5 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| FEB.<br>13... | 214 | 7.5 | -- | -- | 6 | -- | .0 | -- | -- | -- | -- |
| MAR.<br>11... | 195 | 7.5 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| APR.<br>29... | 197 | 7.6 | -- | -- | 6 | -- | .0 | -- | -- | -- | -- |
| MAY<br>29... | 228 | 7.8 | -- | -- | 9 | -- | .0 | <1 | 10 | 2 | <.5 |
| JUNE<br>24... | 243 | 7.7 | -- | -- | 8 | -- | .0 | -- | -- | -- | -- |
| JULY<br>22... | 251 | 7.4 | 20 | 10 | 10 | -- | -- | -- | -- | -- | -- |
| AUG.<br>20... | 248 | -- | 2 | 7 | 17 | 4.4 | -- | -- | -- | -- | -- |
| SEP.<br>16... | 199 | -- | 4 | 20 | 16 | 4.9 | -- | 0 | 10 | 7 | <.5 |

## 01348002 EAST CANADA CREEK NEAR ST. JOHNSVILLE, N.Y.

LOCATION.--Lat 43°00'21", long 74°44'30", Herkimer County, at bridge 0.1 mi (0.2 km) upstream from bridge on State Highway 5, 0.6 mi (1.0 km) upstream from mouth, 0.6 mi (1.0 km) downstream from gaging station (01348000) at East Creek, and 2.7 mi (4.3 km) northwest of St. Johnsville.

DRAINAGE AREA.--291 mi$^2$ (754 km$^2$) at gage.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 07... | 1100 | E467 | 5.3 | 200 | 50 | -- | 7.0 | -- | 1.7 | -- | 1.5 | -- |
| APR. 29... | 1145 | E817 | 3.7 | 60 | 40 | 5.2 | -- | 1.3 | -- | .8 | -- | .1 |
| JUNE 24... | 1110 | E290 | 3.3 | 160 | 50 | 15 | -- | 2.4 | -- | 1.7 | -- | 1.1 |
| AUG. 20... | 1005 | E210 | -- | 150 | 110 | 16 | -- | 3.1 | -- | 2.0 | -- | 1.0 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 07... | .6 | 18 | 0 | 15 | 8.5 | 2.0 | -- | .2 | .35 | .00 | .00 | .25 |
| APR. 29... | -- | 14 | 0 | 11 | 6.9 | 1.1 | .1 | -- | .51 | .01 | .07 | .12 |
| JUNE 24... | -- | 39 | 0 | 32 | 6.6 | 1.5 | .1 | -- | .12 | .01 | .10 | .25 |
| AUG. 20... | -- | 58 | -- | 48 | 8.0 | 2.0 | -- | -- | .12 | .00 | .19 | .24 |

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 07... | .25 | .61 | .01 | -- | .00 | 36 | -- | -- | 9 | 4 | 24 | 10 |
| APR. 29... | .19 | .71 | .01 | .00 | -- | -- | 41 | 23 | 2 | 2 | -- | -- |
| JUNE 24... | .35 | .48 | .02 | .01 | -- | -- | 67 | 55 | 5 | 2 | -- | -- |
| AUG. 20... | .43 | .55 | .01 | .01 | -- | -- | 88 | 72 | 4 | 0 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 07... | 62 | 7.0 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| APR. 29... | 51 | 7.2 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| JUNE 24... | 98 | 7.5 | -- | -- | 12 | -- | .0 | 1 | 20 | 4 | <.5 |
| AUG. 20... | 114 | -- | 7 | 2 | 15 | 4.3 | -- | 0 | 0 | 7 | <.5 |

E Estimated value.

## 01348795 MOHAWK RIVER AT LOCK 15, AT FORT PLAIN, N.Y.

LOCATION.--Lat 42°56'20", long 73°37'20", Montgomery County, at Erie (Barge) Canal Lock 15 movable dam in Fort Plain, 0.4 mi (0.6 km) upstream from bridge on State Highway 80 and 0.5 mi (0.8 km) upstream from Otsquago Creek.

DRAINAGE AREA.--1,805 mi² (4,675 km²).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.—Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1130 | 4.1 | 300 | 50 | -- | 32 | -- | 6.2 | -- | 7.7 | -- | 1.5 |
| NOV. 07... | 1140 | 5.4 | 340 | 50 | -- | 23 | -- | 4.4 | -- | 6.0 | -- | 1.1 |
| DEC. 11... | 1205 | 3.9 | 1700 | 90 | -- | 25 | -- | 4.6 | -- | 4.0 | -- | 1.6 |
| JAN. 15... | 1245 | 4.1 | 700 | 70 | -- | 27 | -- | 5.0 | -- | 5.4 | -- | 1.1 |
| FEB. 13... | 1150 | 4.7 | 330 | 140 | -- | 31 | -- | 5.4 | -- | 4.8 | -- | 1.1 |
| MAR. 11... | 1215 | 3.9 | 660 | 60 | -- | 25 | -- | 4.3 | -- | 4.0 | -- | 1.2 |
| APR. 29... | 1115 | 3.7 | 280 | 70 | 23 | -- | 4.4 | -- | 3.3 | -- | .7 | -- |
| MAY 29... | 1100 | 3.6 | 320 | 70 | 26 | -- | 4.5 | -- | 4.0 | -- | .9 | -- |
| JUNE 24... | 1040 | 3.3 | 300 | 100 | 30 | -- | 5.6 | -- | 5.2 | -- | 1.2 | -- |
| JULY 22... | 1130 | -- | 230 | 60 | 29 | -- | 5.5 | -- | 5.8 | -- | 1.2 | -- |
| AUG. 20... | 1130 | -- | 300 | 80 | 30 | -- | 5.5 | -- | 7.0 | -- | 1.5 | -- |
| SEP. 16... | 1045 | -- | 700 | 80 | 32 | -- | 6.8 | -- | 4.9 | -- | 1.8 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 100 | 0 | 82 | 29 | 9.5 | -- | .4 | .96 | .00 | .06 | .17 | .23 |
| NOV. 07... | 70 | 0 | 57 | 19 | 7.0 | -- | .3 | .63 | .00 | .00 | .26 | .26 |
| DEC. 11... | 71 | 0 | 58 | 21 | 5.7 | -- | .2 | .82 | .00 | .01 | .30 | .31 |
| JAN. 15... | 78 | 0 | 64 | 21 | 7.3 | -- | .1 | 1.2 | .04 | .10 | .29 | .39 |
| FEB. 13... | 89 | 0 | 73 | 23 | 8.3 | -- | .1 | 1.1 | .01 | .21 | .46 | .67 |
| MAR. 11... | 75 | 0 | 62 | 18 | 6.3 | -- | .0 | .93 | .06 | .19 | .20 | .39 |
| APR. 29... | 70 | 0 | 57 | 17 | 5.8 | .1 | -- | .83 | .03 | .17 | .23 | .40 |
| MAY 29... | 77 | 0 | 63 | 15 | 5.4 | .2 | -- | .54 | .03 | .06 | .52 | .58 |
| JUNE 24... | 96 | 0 | 79 | 22 | 7.2 | .2 | -- | .80 | .04 | .16 | .38 | .54 |
| JULY 22... | 88 | 0 | 72 | 23 | 7.3 | -- | -- | .56 | .03 | .20 | .19 | .39 |
| AUG. 20... | 96 | -- | 79 | 27 | 8.7 | -- | -- | .68 | .03 | .26 | .37 | .63 |
| SEP. 16... | 84 | -- | 69 | 21 | 6.0 | -- | -- | .44 | .03 | .26 | .26 | .52 |

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## 01348795 MOHAWK RIVER AT LOCK 15, AT FORT PLAIN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1.2 | .05 | -- | .03 | 140 | 167 | 135 | 9 | 1 | 110 | 23 |
| NOV. 07... | .90 | .04 | -- | .02 | 101 | 225 | 166 | 12 | 7 | 76 | 18 |
| DEC. 11... | 1.1 | .08 | -- | .06 | 101 | 137 | 113 | 44 | 40 | 81 | 23 |
| JAN. 15... | 1.6 | .08 | -- | .02 | 110 | 147 | 114 | 23 | 19 | 88 | 24 |
| FEB. 13... | 1.8 | .04 | -- | .02 | 122 | 141 | 109 | 10 | 8 | 100 | 27 |
| MAR. 11... | 1.4 | .04 | -- | .02 | 100 | 140 | 110 | 28 | 22 | 80 | 19 |
| APR. 29... | 1.3 | .04 | .02 | -- | -- | 110 | 85 | -- | -- | -- | -- |
| MAY 29... | 1.2 | .04 | .01 | -- | -- | 118 | 92 | 7 | 6 | -- | -- |
| JUNE 24... | 1.4 | .05 | .03 | -- | -- | 159 | 149 | 11 | 7 | -- | -- |
| JULY 22... | .98 | .04 | .02 | -- | -- | 156 | 117 | 11 | 10 | -- | -- |
| AUG. 20... | 1.3 | .05 | .02 | -- | -- | 185 | 175 | 7 | 0 | -- | -- |
| SEP. 16... | .99 | .06 | .03 | -- | -- | 145 | 99 | 13 | 9 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARRON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 259 | 7.5 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| NOV. 07... | 185 | 7.4 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| DEC. 11... | 186 | 7.4 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| JAN. 15... | 205 | 7.5 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| FEB. 13... | 225 | 7.5 | -- | -- | 8 | -- | .0 | -- | -- | -- | -- |
| MAR. 11... | 191 | 7.5 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| APR. 29... | 184 | 7.5 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| MAY 29... | 183 | 8.0 | -- | -- | 10 | -- | .0 | 0 | 10 | 2 | <.5 |
| JUNE 24... | 246 | 7.7 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| JULY 22... | 223 | 7.5 | 4 | 7 | 9 | -- | -- | -- | -- | -- | -- |
| AUG. 20... | 222 | -- | 4 | 5 | 18 | 5.6 | -- | -- | -- | -- | -- |
| SEP. 16... | 173 | -- | 10 | 10 | 18 | 7.1 | -- | <1 | 10 | 5 | <.5 |

## 01349520 CAYADUTTA CREEK AT FONDA, N.Y.

LOCATION.--Lat 42°57'10", long 74°22'49", Montgomery County, at railroad bridge, 0.1 mi (0.2 km) downstream from bridge on State Highway 5 in Fonda and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--63.3 mi² (163.9 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | 1235 | 7.8 | 300 | 50 | -- | 66 | -- | 11 | -- | 180 | -- | 5.5 |
| NOV. | | | | | | | | | | | | |
| 27... | 1110 | 6.5 | 230 | 30 | -- | 55 | -- | 8.1 | -- | 70 | -- | 3.0 |
| JAN. | | | | | | | | | | | | |
| 02... | 1520 | 6.8 | 320 | 30 | -- | 50 | -- | 8.0 | -- | 32 | -- | 2.1 |
| 28... | 1515 | 4.9 | 940 | 60 | -- | 40 | -- | 5.5 | -- | 30 | -- | 1.7 |
| FEB. | | | | | | | | | | | | |
| 25... | 1450 | 5.9 | 310 | 30 | -- | 47 | -- | 7.3 | -- | 42 | -- | 1.0 |
| MAR. | | | | | | | | | | | | |
| 25... | 1515 | 6.5 | 1200 | 70 | -- | 66 | -- | 9.3 | -- | 70 | -- | 2.6 |
| APR. | | | | | | | | | | | | |
| 29... | 1540 | 4.8 | 280 | 40 | 58 | -- | 8.0 | -- | 40 | -- | 2.6 | -- |
| MAY | | | | | | | | | | | | |
| 29... | 1540 | 6.3 | 750 | 60 | 69 | -- | 9.0 | -- | 160 | -- | 3.4 | -- |
| JUNE | | | | | | | | | | | | |
| 24... | 1430 | 7.3 | 250 | 50 | 68 | -- | 9.9 | -- | 79 | -- | 3.3 | -- |
| JULY | | | | | | | | | | | | |
| 22... | 1450 | -- | 180 | 30 | 59 | -- | 9.7 | -- | 62 | -- | 2.8 | -- |
| AUG. | | | | | | | | | | | | |
| 20... | 1215 | -- | 520 | 120 | 70 | -- | 10 | -- | 230 | -- | 4.5 | -- |
| SEP. | | | | | | | | | | | | |
| 16... | 1350 | -- | 250 | 40 | 54 | -- | 9.6 | -- | 57 | -- | -- | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | 195 | 0 | 160 | 94 | 220 | -- | .7 | 13 | .01 | .16 | 1.0 | 1.2 |
| NOV. | | | | | | | | | | | | |
| 27... | 150 | 0 | 123 | 56 | 90 | -- | .5 | 6.6 | .06 | .91 | .09 | 1.0 |
| JAN. | | | | | | | | | | | | |
| 02... | 154 | 0 | 126 | 39 | 45 | -- | .3 | 1.6 | 1.8 | .06 | .45 | .51 |
| 28... | 116 | 0 | 95 | 29 | 41 | -- | .3 | 1.2 | .44 | 1.5 | .80 | 2.3 |
| FEB. | | | | | | | | | | | | |
| 25... | 155 | 0 | 127 | 37 | 58 | -- | .2 | .78 | .11 | 3.0 | 1.4 | 4.4 |
| MAR. | | | | | | | | | | | | |
| 25... | 199 | 0 | 163 | 52 | 100 | -- | .4 | .02 | .03 | 5.5 | 10 | 16 |
| APR. | | | | | | | | | | | | |
| 29... | 194 | 0 | 159 | 39 | 65 | .4 | -- | .55 | .30 | .07 | .07 | .14 |
| MAY | | | | | | | | | | | | |
| 29... | 235 | 0 | 193 | 69 | 190 | .5 | -- | .27 | .06 | 7.0 | 1.9 | 8.9 |
| JUNE | | | | | | | | | | | | |
| 24... | 212 | 0 | 174 | 62 | 90 | .3 | -- | .34 | .76 | 8.2 | 5.8 | 14 |
| JULY | | | | | | | | | | | | |
| 22... | 195 | 0 | 160 | 52 | 89 | -- | -- | .30 | 1.4 | 4.2 | .00 | 4.2 |
| AUG. | | | | | | | | | | | | |
| 20... | 165 | -- | 135 | 120 | 330 | -- | -- | .01 | .63 | 16 | .00 | 16 |
| SEP. | | | | | | | | | | | | |
| 16... | 185 | -- | 152 | 51 | 80 | -- | -- | 3.7 | 2.7 | .14 | .85 | .99 |

CONTINUED NEXT PAGE

## 01349520 CAYADUTTA CREEK AT FONDA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 14 | 1.1 | -- | 1.1 | 684 | 743 | 635 | 0 | 0 | 210 | 50 |
| NOV. | | | | | | | | | | | |
| 27... | 7.7 | .10 | -- | .02 | 363 | 421 | 359 | 16 | 8 | 170 | 48 |
| JAN. | | | | | | | | | | | |
| 02... | 3.9 | .21 | -- | .14 | 259 | 313 | 251 | 13 | 6 | 160 | 31 |
| 28... | 3.9 | .23 | -- | .06 | 210 | 242 | 213 | 48 | 34 | 120 | 27 |
| FEB. | | | | | | | | | | | |
| 25... | 5.3 | 1.4 | -- | .79 | 277 | 272 | 236 | 10 | 2 | 150 | 20 |
| MAR. | | | | | | | | | | | |
| 25... | 16 | 1.6 | -- | .07 | 405 | 520 | 400 | 116 | 36 | 200 | 40 |
| APR. | | | | | | | | | | | |
| 29... | .99 | .14 | .05 | -- | -- | 371 | 310 | 11 | 6 | -- | -- |
| MAY | | | | | | | | | | | |
| 29... | 9.2 | .71 | .08 | -- | -- | 671 | 599 | 40 | 16 | -- | -- |
| JUNE | | | | | | | | | | | |
| 24... | 15 | 1.3 | .81 | -- | -- | 483 | 390 | 14 | 2 | -- | -- |
| JULY | | | | | | | | | | | |
| 22... | 5.9 | .27 | .13 | -- | -- | 464 | 383 | 13 | 8 | -- | -- |
| AUG. | | | | | | | | | | | |
| 20... | 17 | .37 | .21 | -- | -- | 984 | 912 | 22 | 4 | -- | -- |
| SEP. | | | | | | | | | | | |
| 16... | 7.4 | .38 | .27 | -- | -- | 411 | 336 | 8 | 2 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 1310 | 7.2 | -- | -- | 38 | -- | .1 | 4 | 20 | 10 | 3.0 |
| NOV. | | | | | | | | | | | |
| 27... | 678 | 6.8 | -- | -- | 27 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 02... | 494 | 7.5 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| 28... | 388 | 7.3 | -- | -- | 33 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 25... | 520 | 7.4 | -- | -- | 31 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 25... | 699 | 7.6 | -- | -- | 210 | -- | .1 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 29... | 612 | 8.0 | -- | -- | 23 | -- | .1 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 29... | 1070 | 7.5 | -- | -- | 82 | -- | .2 | 6 | 40 | 57 | <.5 |
| JUNE | | | | | | | | | | | |
| 24... | 773 | 8.0 | -- | -- | 49 | -- | .3 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 22... | 730 | 7.6 | 5 | 4 | 32 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 20... | 1570 | -- | 80 | 10 | 87 | 37 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 16... | 549 | -- | 2 | 4 | 25 | 8.6 | -- | 5 | 10 | 7 | <.5 |

## 01349527 MOHAWK RIVER AT FONDA, N.Y.

LOCATION.--Lat 42°57'01", long 74°22'21", Montgomery County, at dock of State Department of Transportation Erie (Barge) Canal terminal in Fonda, 0.1 mi (0.2 km) upstream from bridge on State Highway 30A, and 0.4 mi (0.6 km) downstream from Cayadutta Creek.

DRAINAGE AREA.--2,125 mi² (5,504 km²).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | 1215 | 3.9 | 260 | 40 | -- | 28 | -- | 5.6 | -- | 8.2 | -- | 1.3 |
| NOV. | | | | | | | | | | | | |
| 27... | 1130 | 4.2 | 560 | 60 | -- | 31 | -- | 5.3 | -- | 12 | -- | 1.6 |
| JAN. | | | | | | | | | | | | |
| 02... | 1545 | 4.5 | 630 | 60 | -- | 30 | -- | 5.7 | -- | 8.9 | -- | 1.3 |
| 28... | -- | 4.1 | 4000 | 120 | -- | 35 | -- | 4.8 | -- | 12 | -- | 1.3 |
| FEB. | | | | | | | | | | | | |
| 25... | 1520 | 4.2 | 750 | 40 | -- | 29 | -- | 5.3 | -- | 9.3 | -- | 1.6 |
| MAR. | | | | | | | | | | | | |
| 25... | 1545 | 5.1 | 470 | 60 | -- | 36 | -- | 7.0 | -- | 17 | -- | 1.5 |
| APR. | | | | | | | | | | | | |
| 29... | 1625 | 3.5 | 220 | 70 | 36 | -- | 4.9 | -- | 4.3 | -- | .7 | -- |
| MAY | | | | | | | | | | | | |
| 29... | 1610 | 3.5 | 230 | 50 | 33 | -- | 6.3 | -- | 8.8 | -- | 1.2 | -- |
| JUNE | | | | | | | | | | | | |
| 24... | 1455 | 1.9 | 210 | 60 | 33 | -- | 6.2 | -- | 6.0 | -- | 1.1 | -- |
| JULY | | | | | | | | | | | | |
| 22... | 1515 | -- | 210 | 50 | 36 | -- | 6.4 | -- | 7.6 | -- | 1.3 | -- |
| AUG. | | | | | | | | | | | | |
| 20... | 1430 | -- | 150 | 60 | 33 | -- | 6.1 | -- | 7.2 | -- | 1.4 | -- |
| SEP. | | | | | | | | | | | | |
| 16... | 1415 | -- | 610 | 80 | 33 | -- | 6.2 | -- | 6.7 | -- | 1.8 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | 86 | 0 | 71 | 28 | 10 | -- | .3 | .93 | .00 | .04 | .26 | .30 |
| NOV. | | | | | | | | | | | | |
| 27... | 82 | 0 | 67 | 27 | 15 | -- | .3 | 1.3 | .00 | .12 | .09 | .21 |
| JAN. | | | | | | | | | | | | |
| 02... | 95 | 0 | 78 | 22 | 14 | -- | .4 | 1.1 | .30 | .03 | .23 | .26 |
| 28... | 92 | 0 | 75 | 23 | 18 | -- | .3 | 1.4 | .22 | .30 | 1.1 | 1.4 |
| FEB. | | | | | | | | | | | | |
| 25... | 91 | 0 | 75 | 20 | 15 | -- | .1 | .96 | .14 | .47 | .52 | .99 |
| MAR. | | | | | | | | | | | | |
| 25... | 111 | 0 | 91 | 27 | 27 | -- | .1 | .70 | .08 | 1.4 | .80 | 2.2 |
| APR. | | | | | | | | | | | | |
| 29... | 80 | 0 | 66 | 20 | 8.2 | .1 | -- | .79 | .03 | .25 | 13 | 13 |
| MAY | | | | | | | | | | | | |
| 29... | 107 | 0 | 88 | 24 | 12 | .1 | -- | .64 | .03 | .17 | .36 | .53 |
| JUNE | | | | | | | | | | | | |
| 24... | 101 | 0 | 83 | 26 | 8.7 | .1 | -- | .64 | .04 | .10 | .49 | .59 |
| JULY | | | | | | | | | | | | |
| 22... | 103 | 0 | 84 | 28 | 11 | -- | -- | .56 | .04 | .26 | .18 | .44 |
| AUG. | | | | | | | | | | | | |
| 20... | 108 | -- | 89 | 31 | 11 | -- | -- | .50 | .02 | .29 | .36 | .65 |
| SEP. | | | | | | | | | | | | |
| 16... | 104 | -- | 85 | 27 | 9.0 | -- | -- | .54 | .09 | .39 | .25 | .64 |

CONTINUED NEXT PAGE

## 01349527 MOHAWK RIVER AT FONDA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 1.2 | .17 | -- | .03 | 128 | 152 | 135 | 2 | 0 | 93 | 22 |
| NOV. | | | | | | | | | | | |
| 27... | 1.5 | .07 | -- | .04 | 137 | 175 | 141 | 17 | 12 | 99 | 32 |
| JAN. | | | | | | | | | | | |
| 02... | 1.7 | .04 | -- | .01 | 134 | 180 | 140 | 18 | 14 | 98 | 20 |
| 28... | 3.0 | .21 | -- | .06 | 144 | 310 | 274 | 121 | 107 | 110 | 32 |
| FEB. | | | | | | | | | | | |
| 25... | 2.1 | .10 | -- | .04 | 129 | 169 | 133 | 15 | 11 | 94 | 20 |
| MAR. | | | | | | | | | | | |
| 25... | 3.0 | .22 | -- | .08 | 176 | 215 | 162 | 15 | 13 | 120 | 28 |
| APR. | | | | | | | | | | | |
| 29... | 14 | .04 | .02 | -- | -- | 134 | 106 | 6 | 5 | -- | -- |
| MAY | | | | | | | | | | | |
| 29... | 1.2 | .04 | .01 | -- | -- | 172 | 147 | 10 | 6 | -- | -- |
| JUNE | | | | | | | | | | | |
| 24... | 1.3 | .05 | .01 | -- | -- | 169 | 132 | 10 | 6 | -- | -- |
| JULY | | | | | | | | | | | |
| 22... | 1.0 | .04 | .01 | -- | -- | 190 | 125 | 10 | 8 | -- | -- |
| AUG. | | | | | | | | | | | |
| 20... | 1.2 | .04 | .01 | -- | -- | 194 | 173 | 6 | 0 | -- | -- |
| SEP. | | | | | | | | | | | |
| 16... | 1.3 | .07 | .04 | -- | -- | 182 | 130 | 18 | 6 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 245 | 7.2 | -- | -- | 10 | -- | .0 | <1 | 10 | 7 | 1.9 |
| NOV. | | | | | | | | | | | |
| 27... | 253 | 7.2 | -- | -- | 18 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 02... | 252 | 7.4 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| 28... | 252 | 7.5 | -- | -- | 23 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 25... | 249 | 7.5 | -- | -- | 16 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 25... | 317 | 7.6 | -- | -- | 41 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 29... | 212 | 7.6 | -- | -- | 7 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 29... | 260 | 7.9 | -- | -- | 11 | -- | .0 | 0 | 10 | 1 | <.5 |
| JUNE | | | | | | | | | | | |
| 24... | 250 | 8.2 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 22... | 269 | 7.7 | 10 | 6 | 9 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 20... | 260 | -- | 4 | 4 | 17 | 3.9 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 16... | 212 | -- | 7 | 10 | 17 | 5.0 | -- | 0 | 10 | 4 | <.5 |

## 01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.

**LOCATION.**--Lat 42°27'57", long 74°27'45", Schoharie County, at gaging station on left bank, 2,300 ft (701 m) upstream from West Kill, and 1.2 mi (1.9 km) upstream from bridge on State Highway 30 in North Blenheim.

**DRAINAGE AREA.**--359 mi² (930 km²).

**PERIOD OF RECORD.**--Water temperatures: October 1971 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures: Maximum 31.5°C June 10, Aug. 20; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1973-74) 31.5°C June 10 and Aug. 20, 1974; minimum, freezing point on many days during winter periods.

**REMARKS.**--During periods of low flow and direct sun, water temperature probe may not indicate value truly representative of the stream.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 17.0 | 9.5 | 13.0 | 10.0 | 8.0 | 9.0 | 6.5 | 3.5 | 5.5 | 3.0 | 2.0 | 2.5 |
| 2 | 14.0 | 11.0 | 12.5 | 11.5 | 7.0 | 8.5 | 5.5 | 1.0 | 3.0 | 2.5 | 1.0 | 2.0 |
| 3 | 19.0 | 13.5 | 15.5 | 9.0 | 7.0 | 8.0 | 6.5 | 2.5 | 4.0 | 2.5 | 1.5 | 2.0 |
| 4 | 17.5 | 12.5 | 14.5 | 7.5 | 6.5 | 7.0 | 8.5 | 5.0 | 6.5 | 2.5 | 1.0 | 2.0 |
| 5 | 19.0 | 12.0 | 15.0 | 7.0 | 6.0 | 6.5 | 8.5 | 7.5 | 8.0 | 2.0 | 0.5 | 1.0 |
| 6 | 17.5 | 9.5 | 12.5 | 6.5 | 3.5 | 5.5 | 8.5 | 6.0 | 7.5 | 2.0 | 0.5 | 1.5 |
| 7 | 17.0 | 9.5 | 12.5 | 6.5 | 5.0 | 5.5 | 6.5 | 5.5 | 6.0 | 2.0 | 1.0 | 1.5 |
| 8 | 16.5 | 10.0 | 12.5 | 6.5 | 4.0 | 5.5 | 6.0 | 5.0 | 5.5 | 1.0 | 0.0 | 0.5 |
| 9 | 15.5 | 9.5 | 12.5 | 6.5 | 4.5 | 5.5 | 5.5 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 10 | 19.5 | 11.5 | 14.5 | 5.0 | 4.0 | 5.0 | 6.0 | 5.0 | 5.5 | 1.0 | 0.0 | 0.0 |
| 11 | 17.5 | 10.5 | 13.0 | 6.5 | 5.5 | 6.0 | 6.0 | 5.0 | 5.5 | 1.5 | 1.0 | 1.0 |
| 12 | 17.0 | 9.5 | 12.5 | 8.0 | 6.0 | 7.0 | 5.5 | 4.5 | 5.0 | 1.5 | 0.0 | 0.5 |
| 13 | 16.0 | 10.0 | 13.0 | 8.5 | 7.5 | 8.0 | 5.5 | 3.5 | 5.0 | 1.0 | 0.0 | 0.0 |
| 14 | 16.0 | 11.0 | 13.0 | 9.5 | 7.5 | 9.0 | 6.0 | 5.0 | 5.5 | 1.5 | 0.0 | 0.5 |
| 15 | 14.5 | 9.5 | 11.5 | 9.0 | 7.5 | 8.5 | 5.0 | 4.0 | 4.5 | 2.0 | 1.5 | 2.0 |
| 16 | 12.0 | 8.5 | 10.0 | 8.0 | 7.0 | 7.5 | 4.5 | 3.5 | 4.0 | 2.5 | 2.0 | 2.0 |
| 17 | 12.0 | 8.5 | 9.5 | 7.0 | 6.0 | 6.5 | 3.5 | 1.5 | 2.5 | 2.0 | 0.0 | 1.0 |
| 18 | 9.0 | 8.5 | 9.0 | 8.0 | 6.5 | 7.0 | 3.0 | 1.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 19 | 10.0 | 8.0 | 9.0 | 8.0 | 6.0 | 7.5 | 1.5 | 0.0 | 0.5 | 3.0 | 0.0 | 1.0 |
| 20 | 12.5 | 8.5 | 10.0 | 8.0 | 4.0 | 5.5 | 4.0 | 1.0 | 2.5 | 1.0 | 0.0 | 0.5 |
| 21 | 14.0 | 8.0 | 10.5 | 7.0 | 3.0 | 5.0 | 4.0 | 2.5 | 3.0 | 2.0 | 1.0 | 1.5 |
| 22 | 14.0 | 7.5 | 10.0 | 9.5 | 7.0 | 8.0 | 3.0 | 2.5 | 3.0 | 2.5 | 2.0 | 2.0 |
| 23 | 13.5 | 7.5 | 10.0 | 9.0 | 6.5 | 7.5 | 3.0 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 |
| 24 | 15.0 | 8.0 | 10.5 | 8.0 | 6.0 | 7.0 | 2.5 | 1.0 | 2.0 | 2.5 | 2.0 | 2.0 |
| 25 | 14.5 | 8.0 | 10.5 | 8.5 | 7.5 | 8.0 | 3.0 | 0.0 | 1.0 | 3.0 | 1.0 | 2.0 |
| 26 | 14.0 | 8.5 | 10.5 | 8.0 | 6.5 | 7.0 | 3.5 | 2.0 | 2.5 | 3.0 | 1.5 | 2.0 |
| 27 | 10.5 | 8.0 | 9.0 | 8.5 | 7.0 | 7.5 | 3.0 | 2.5 | 2.5 | 3.0 | 2.5 | 2.5 |
| 28 | 9.0 | 7.0 | 8.0 | 9.0 | 8.0 | 8.5 | 3.0 | 2.5 | 3.0 | 2.5 | 2.5 | 2.5 |
| 29 | 8.0 | 7.5 | 8.0 | 8.0 | 7.0 | 7.5 | 3.0 | 2.5 | 3.0 | 2.5 | 2.0 | 2.5 |
| 30 | 11.5 | 8.0 | 9.0 | 7.0 | 6.0 | 6.5 | 3.0 | 2.5 | 3.0 | 3.0 | 2.0 | 2.5 |
| 31 | 13.0 | 7.5 | 9.5 | --- | --- | --- | 2.5 | 2.0 | 2.5 | 3.5 | 2.0 | 2.5 |
| MONTH | 19.5 | 7.0 | 11.5 | 11.5 | 3.0 | 7.0 | 8.5 | 0.0 | 4.0 | 3.5 | 0.0 | 1.5 |

CONTINUED NEXT PAGE

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 2.5 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 | 3.0 | 2.5 | 2.5 | 10.0 | 9.0 | 9.5 |
| 2 | 2.0 | 1.0 | 1.5 | 2.0 | 1.5 | 2.0 | 3.0 | 2.5 | 2.5 | 10.5 | 8.5 | 9.5 |
| 3 | 1.0 | 0.5 | 0.5 | 2.5 | 2.0 | 2.0 | 3.5 | 2.5 | 3.0 | 9.5 | 9.0 | 9.0 |
| 4 | 1.5 | 0.0 | 0.5 | 2.5 | 2.0 | 2.5 | 4.5 | 3.5 | 4.0 | 12.0 | 8.5 | 10.0 |
| 5 | 1.0 | 0.0 | 0.5 | 3.0 | 2.5 | 2.5 | 4.5 | 4.0 | 4.5 | 14.0 | 7.5 | 10.5 |
| 6 | 1.5 | 0.0 | 0.5 | 3.5 | 2.0 | 2.5 | 4.5 | 3.5 | 4.0 | 10.0 | 9.0 | 9.5 |
| 7 | 1.5 | 0.0 | 1.0 | 3.5 | 3.0 | 3.0 | 4.5 | 3.0 | 4.0 | 10.0 | 9.0 | 9.5 |
| 8 | 1.0 | 0.0 | 0.5 | 3.0 | 2.5 | 3.0 | 4.0 | 4.0 | 4.0 | 13.0 | 9.5 | 10.0 |
| 9 | 1.5 | 0.0 | 0.5 | 2.5 | 2.5 | 2.5 | 4.0 | 3.5 | 3.5 | 11.0 | 10.0 | 10.5 |
| 10 | 2.0 | 0.0 | 0.5 | 3.5 | 2.0 | 3.0 | 4.5 | 3.0 | 4.0 | 10.5 | 10.0 | 10.0 |
| 11 | 1.5 | 0.5 | 1.0 | 3.5 | 1.5 | 2.5 | 5.0 | 3.0 | 4.0 | 11.5 | 9.5 | 10.5 |
| 12 | 2.0 | 0.0 | 0.5 | 3.0 | 1.5 | 2.5 | 5.0 | 4.0 | 4.5 | 11.5 | 10.5 | 10.5 |
| 13 | 2.5 | 1.0 | 1.5 | 2.5 | 1.0 | 1.5 | 5.5 | 4.5 | 5.0 | 10.5 | 10.0 | 10.5 |
| 14 | 1.5 | 0.5 | 1.5 | 3.0 | 1.5 | 2.0 | 6.5 | 5.0 | 6.0 | 11.5 | 10.0 | 11.0 |
| 15 | 1.5 | 0.0 | 0.5 | 3.0 | 1.0 | 2.0 | 6.5 | 5.5 | 6.0 | 12.0 | 11.0 | 11.5 |
| 16 | 2.0 | 0.0 | 0.5 | 2.5 | 2.0 | 2.5 | 6.5 | 6.0 | 6.0 | 12.5 | 11.0 | 11.5 |
| 17 | 2.0 | 1.0 | 1.5 | 2.5 | 2.0 | 2.0 | 6.5 | 6.0 | 6.5 | 12.5 | 11.5 | 12.0 |
| 18 | 2.0 | 0.5 | 1.0 | 2.5 | 1.5 | 2.0 | 7.0 | 6.0 | 6.5 | 13.0 | 11.5 | 12.0 |
| 19 | 2.0 | 0.5 | 1.0 | 3.0 | 2.0 | 2.5 | 7.0 | 6.0 | 6.5 | 13.0 | 11.5 | 12.0 |
| 20 | 2.0 | 1.5 | 1.5 | 3.0 | 2.0 | 2.5 | 8.0 | 6.0 | 7.0 | 13.0 | 12.0 | 12.5 |
| 21 | 2.5 | 1.0 | 1.5 | 2.5 | 2.0 | 2.0 | 8.5 | 6.5 | 7.5 | 13.5 | 12.0 | 12.5 |
| 22 | 2.5 | 1.0 | 1.5 | 2.5 | 2.0 | 2.0 | 9.0 | 8.0 | 8.5 | 15.0 | 12.5 | 13.5 |
| 23 | 2.0 | 1.5 | 2.0 | 3.5 | 1.5 | 2.5 | 8.5 | 8.0 | 8.5 | 14.0 | 13.0 | 13.5 |
| 24 | 2.0 | 1.0 | 1.5 | 3.0 | 2.0 | 2.5 | 8.5 | 7.5 | 8.0 | 14.5 | 13.0 | 13.5 |
| 25 | 2.0 | 1.5 | 1.5 | 3.0 | 1.5 | 2.0 | 9.5 | 7.0 | 8.0 | 14.0 | 11.5 | 12.5 |
| 26 | 2.0 | 1.0 | 1.5 | 3.5 | 1.5 | 2.5 | 9.5 | 7.5 | 8.5 | 13.0 | 11.5 | 12.5 |
| 27 | 2.5 | 0.5 | 1.5 | 3.0 | 1.5 | 2.5 | 10.0 | 7.5 | 9.0 | 13.5 | 12.0 | 13.0 |
| 28 | 3.0 | 1.5 | 2.0 | 3.0 | 1.5 | 2.5 | 11.0 | 8.0 | 9.5 | 14.0 | 12.5 | 13.0 |
| 29 | --- | --- | --- | 2.0 | 1.5 | 1.5 | 11.0 | 9.0 | 10.0 | 13.5 | 12.5 | 13.0 |
| 30 | --- | --- | --- | 2.5 | 1.5 | 2.0 | 10.0 | 9.5 | 9.5 | 17.5 | 12.5 | 15.0 |
| 31 | --- | --- | --- | 2.5 | 2.0 | 2.5 | --- | --- | --- | 18.5 | 13.5 | 15.5 |
| MONTH | 3.0 | 0.0 | 1.0 | 3.5 | 1.0 | 2.5 | 11.0 | 2.5 | 6.0 | 18.5 | 7.5 | 11.5 |

| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 21.5 | 14.0 | 16.5 | 6.5 | 16.0 | 19.5 | 21.5 | 19.0 | 20.0 | 26.0 | 19.5 | 22.0 |
| 2 | 19.0 | 12.5 | 15.5 | 1.5 | 14.5 | 18.0 | 24.0 | 19.5 | 21.5 | 20.5 | 19.5 | 20.0 |
| 3 | 23.0 | 12.0 | 18.0 | 9.5 | 16.0 | 17.5 | 23.5 | 20.0 | 21.5 | 20.0 | 19.0 | 19.5 |
| 4 | 26.5 | 12.5 | 18.5 | 9.0 | 17.0 | 18.0 | 23.5 | 20.5 | 22.0 | 20.5 | 19.5 | 20.0 |
| 5 | 26.0 | 14.0 | 19.5 | 0.0 | 17.5 | 18.5 | 23.0 | 20.0 | 21.5 | 22.0 | 18.0 | 19.5 |
| 6 | 26.0 | 14.0 | 19.5 | 0.5 | 17.0 | 18.5 | 24.0 | 18.5 | 21.0 | 19.5 | 18.0 | 18.5 |
| 7 | 25.0 | 13.5 | 18.5 | 9.5 | 17.0 | 18.5 | 23.0 | 18.5 | 20.5 | 21.0 | 17.5 | 19.0 |
| 8 | 28.0 | 15.0 | 20.5 | 2.0 | 17.5 | 19.5 | 24.5 | 18.5 | 21.5 | 22.5 | 17.5 | 20.0 |
| 9 | 28.5 | 16.0 | 21.5 | 7.5 | 18.5 | 22.5 | 23.5 | 19.5 | 21.0 | 21.5 | 18.0 | 19.5 |
| 10 | 31.5 | 17.5 | 23.0 | 7.0 | 19.0 | 22.5 | 28.0 | 19.0 | 22.5 | 21.5 | 18.0 | 19.5 |
| 11 | 26.0 | 16.5 | 21.0 | 5.0 | 16.0 | 19.5 | 30.0 | 17.0 | 22.0 | 22.0 | 18.0 | 19.5 |
| 12 | 21.5 | 13.5 | 16.0 | 7.0 | 15.0 | 20.0 | 30.5 | 16.0 | 22.0 | 22.5 | 18.5 | 20.0 |
| 13 | 24.0 | 10.5 | 16.5 | 9.0 | 15.0 | 21.0 | 24.5 | 19.0 | 22.0 | 22.5 | 19.0 | 20.0 |
| 14 | 22.0 | 12.5 | 16.5 | 0.5 | 17.0 | 23.0 | 25.0 | 20.0 | 22.5 | 19.0 | 17.5 | 18.5 |
| 15 | 23.0 | 13.0 | 17.5 | 0.0 | 20.5 | 24.0 | 25.0 | 19.0 | 22.0 | 20.0 | 17.5 | 18.5 |
| 16 | 18.5 | 15.0 | 16.5 | 8.5 | 18.5 | 22.0 | 26.0 | 18.5 | 22.0 | 20.0 | 17.0 | 18.5 |
| 17 | 23.5 | 15.5 | 19.0 | 9.5 | 15.0 | 21.0 | 23.5 | 19.5 | 21.5 | 20.0 | 16.0 | 18.0 |
| 18 | 19.0 | 14.0 | 16.0 | 6.5 | 16.0 | 21.5 | 29.0 | 19.0 | 22.5 | 18.5 | 17.5 | 18.0 |
| 19 | 17.0 | 13.5 | 15.5 | 9.5 | 18.5 | 22.5 | 29.0 | 17.0 | 22.0 | 20.0 | 17.5 | 18.5 |
| 20 | 18.0 | 14.0 | 16.0 | 5.5 | 15.5 | 19.5 | 31.5 | 19.0 | 23.5 | 21.0 | 18.0 | 19.0 |
| 21 | 17.5 | 13.5 | 15.5 | 4.0 | 14.0 | 19.0 | 29.5 | 19.5 | 23.5 | 18.5 | 16.5 | 18.0 |
| 22 | 25.5 | 15.0 | 19.0 | 8.0 | 14.0 | 20.5 | 28.5 | 19.5 | 23.0 | 19.0 | 17.0 | 18.0 |
| 23 | 17.5 | 13.5 | 15.5 | 1.0 | 16.0 | 19.5 | 25.5 | 20.5 | 22.5 | 18.5 | 15.0 | 15.5 |
| 24 | 18.5 | 13.5 | 16.0 | 9.0 | 17.0 | 18.0 | 26.5 | 20.0 | 22.5 | 17.5 | 14.5 | 15.5 |
| 25 | 18.5 | 14.5 | 15.5 | 0.5 | 16.5 | 18.5 | 26.0 | 18.5 | 21.5 | 16.0 | 14.0 | 15.0 |
| 26 | 18.5 | 14.5 | 16.0 | 2.5 | 17.0 | 19.5 | 23.5 | 17.0 | 20.0 | 17.5 | 14.5 | 15.5 |
| 27 | 20.5 | 15.0 | 17.5 | 6.5 | 18.5 | 21.5 | 23.5 | 20.5 | 22.0 | 18.5 | 14.5 | 16.5 |
| 28 | 22.0 | 14.5 | 18.0 | 9.0 | 18.0 | 22.5 | 21.5 | 20.0 | 21.0 | 16.5 | 15.0 | 16.0 |
| 29 | 24.5 | 16.0 | 18.5 | 6.5 | 18.0 | 21.5 | 21.5 | 19.5 | 20.5 | 17.0 | 15.5 | 16.5 |
| 30 | 25.5 | 15.5 | 19.5 | 0.0 | 17.5 | 19.5 | 23.5 | 21.5 | 21.5 | 16.0 | 14.5 | 15.5 |
| 31 | --- | --- | --- | 1.0 | 18.0 | 19.5 | 23.5 | 20.5 | 22.0 | --- | --- | --- |
| MONTH | 31.5 | 10.5 | 17.5 | 0.5 | 14.0 | 20.0 | 31.5 | 16.0 | 22.0 | 26.0 | 14.0 | 18.5 |

## 01353995 SCHOHARIE CREEK AT FORT HUNTER, N.Y.

LOCATION.--Lat 42°56'17", long 74°16'57", Montgomery County, at bridge on State Highway 5S in Fort Hunter and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--926 mi² (2,398 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | 1130 | E21 | .8 | 80 | 30 | -- | 34 | -- | 6.9 | -- | 11 | -- |
| FEB. | | | | | | | | | | | | |
| 13... | 1230 | E805 | 4.7 | 320 | 50 | -- | 32 | -- | 5.5 | -- | 9.8 | -- |
| MAY | | | | | | | | | | | | |
| 29... | 1015 | E780 | 1.4 | 20 | 10 | 23 | -- | 2.8 | -- | 4.0 | -- | 1.0 |
| JULY | | | | | | | | | | | | |
| 22... | 1045 | E147 | -- | 0 | 0 | 40 | -- | 5.0 | -- | 6.1 | -- | 2.1 |
| SEP. | | | | | | | | | | | | |
| 16... | 0945 | E307 | -- | 370 | 30 | 35 | -- | 5.2 | -- | 7.0 | -- | 2.4 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | 2.3 | 113 | 0 | 93 | 30 | 17 | -- | .2 | .48 | .00 | .04 | .20 |
| FEB. | | | | | | | | | | | | |
| 13... | 1.1 | 93 | 0 | 76 | 26 | 17 | -- | .2 | .99 | .01 | .38 | .33 |
| MAY | | | | | | | | | | | | |
| 29... | -- | 74 | 0 | 61 | 12 | 4.9 | .2 | -- | .15 | .01 | .03 | .23 |
| JULY | | | | | | | | | | | | |
| 22... | -- | 128 | 0 | 105 | 21 | 8.4 | -- | -- | .29 | .01 | .12 | .26 |
| SEP. | | | | | | | | | | | | |
| 16... | -- | 122 | -- | 100 | 18 | 8.8 | -- | -- | .14 | .00 | .25 | .28 |

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 23... | .24 | .73 | .10 | -- | .00 | 158 | 185 | 180 | 0 | 0 | 110 | 21 |
| FEB. | | | | | | | | | | | | |
| 13... | .71 | 1.7 | .06 | -- | .04 | 142 | 161 | 132 | 8 | 7 | 100 | 26 |
| MAY | | | | | | | | | | | | |
| 29... | .26 | .42 | .01 | .00 | -- | -- | 93 | 78 | 4 | 2 | -- | -- |
| JULY | | | | | | | | | | | | |
| 22... | .38 | .68 | .01 | .01 | -- | -- | 177 | 142 | 6 | 4 | -- | -- |
| SEP. | | | | | | | | | | | | |
| 16... | .53 | .67 | .02 | .01 | -- | -- | 165 | 123 | 5 | 1 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 302 | 7.5 | -- | -- | 5 | -- | .0 | <1 | 10 | 3 | 3.9 |
| FEB. | | | | | | | | | | | |
| 13... | 260 | 7.6 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 29... | 165 | 8.1 | -- | -- | 8 | -- | .0 | 1 | 8 | 9 | <.5 |
| JULY | | | | | | | | | | | |
| 22... | 270 | 7.9 | 3 | 2 | 6 | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 16... | 220 | -- | 2 | 5 | 13 | 4.5 | -- | <1 | 10 | 5 | <.5 |

E Estimated value.

## 01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.

LOCATION.--Lat 42°56'42", long 74°17'21", Montgomery County, at bridge on highway between Tribes Hill and Fort Hunter and 0.3 mi (0.5 km) downstream from Schoharie Creek.

DRAINAGE AREA.—3,096 mi² (8,019 km²).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 1100 | 3.8 | 960 | 140 | -- | 28 | -- | 5.4 | -- | 10 |
| NOV. | | | | | | | | | | |
| 07... | 1245 | 5.4 | 470 | 70 | -- | 25 | -- | 5.0 | -- | 7.0 |
| DEC. | | | | | | | | | | |
| 11... | 1330 | 3.8 | 2000 | 90 | -- | 27 | -- | 4.8 | -- | 5.0 |
| JAN. | | | | | | | | | | |
| 15... | 1330 | 4.4 | 630 | 60 | -- | 28 | -- | 5.0 | -- | 8.6 |
| MAR. | | | | | | | | | | |
| 11... | 1310 | 3.9 | 450 | 50 | -- | 26 | -- | 4.3 | -- | 4.2 |
| APR. | | | | | | | | | | |
| 08... | 1445 | 4.1 | 1200 | 60 | -- | 26 | -- | 4.2 | -- | 3.8 |
| 22... | 1440 | 3.7 | 380 | 50 | -- | 21 | -- | 3.6 | -- | 3.5 |
| MAY | | | | | | | | | | |
| 07... | 1315 | 3.6 | 310 | 60 | 30 | -- | 5.6 | -- | 8.3 | -- |
| 20... | 1530 | 3.0 | 320 | 20 | 23 | -- | 4.0 | -- | 4.0 | -- |
| JUNE | | | | | | | | | | |
| 03... | 1610 | 2.9 | 260 | 40 | 30 | -- | 5.7 | -- | 6.7 | -- |
| 17... | 1510 | .4 | 240 | 70 | 36 | -- | 6.8 | -- | 9.5 | -- |
| JULY | | | | | | | | | | |
| 01... | 1400 | 2.1 | 190 | 50 | 30 | -- | 5.6 | -- | 7.6 | -- |
| 15... | 1445 | -- | 590 | 60 | 34 | -- | 5.8 | -- | 7.2 | -- |
| 29... | 1430 | -- | 320 | 40 | 38 | -- | 6.1 | -- | 9.1 | -- |
| AUG. | | | | | | | | | | |
| 12... | 1415 | -- | 60 | 20 | 33 | -- | 5.7 | -- | 10 | -- |
| 27... | 1320 | -- | 300 | 50 | 38 | -- | 6.6 | -- | 10 | -- |
| SEP. | | | | | | | | | | |
| 10... | 1555 | -- | 430 | 50 | 37 | -- | 6.8 | -- | 7.7 | -- |
| 25... | 1440 | -- | 360 | 40 | 32 | -- | 9.4 | -- | 6.8 | -- |

| DATE | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | 1.3 | 85 | 0 | 70 | 26 | 13 | -- | .4 | 1.2 |
| NOV. | | | | | | | | | | |
| 07... | -- | 1.4 | 75 | 0 | 62 | 24 | 9.0 | -- | .3 | .78 |
| DEC. | | | | | | | | | | |
| 11... | -- | 1.7 | 77 | 0 | 63 | 23 | 7.0 | -- | .4 | .88 |
| JAN. | | | | | | | | | | |
| 15... | -- | 1.0 | 82 | 0 | 67 | 25 | 11 | -- | .1 | 1.2 |
| MAR. | | | | | | | | | | |
| 11... | -- | 1.1 | 76 | 0 | 62 | 18 | 7.2 | -- | .1 | .89 |
| APR. | | | | | | | | | | |
| 08... | -- | 1.4 | 85 | 0 | 70 | 17 | 6.2 | -- | .1 | .98 |
| 22... | -- | .9 | 61 | 0 | 50 | 16 | 5.0 | -- | .0 | .74 |
| MAY | | | | | | | | | | |
| 07... | 1.0 | -- | 84 | -- | 69 | 20 | 12 | .2 | -- | .72 |
| 20... | 1.0 | -- | 67 | 0 | 55 | 15 | 5.9 | .1 | -- | .36 |
| JUNE | | | | | | | | | | |
| 03... | .9 | -- | 101 | 0 | 83 | 21 | 9.3 | .2 | -- | .62 |
| 17... | 1.3 | -- | 113 | 0 | 93 | 30 | 13 | .2 | -- | .61 |
| JULY | | | | | | | | | | |
| 01... | 1.3 | -- | 99 | 0 | 81 | 27 | 10 | .2 | -- | .62 |
| 15... | 1.5 | -- | 109 | 0 | 89 | 24 | 10 | -- | -- | .59 |
| 29... | 1.7 | -- | 108 | 0 | 89 | 27 | 13 | -- | -- | .51 |
| AUG. | | | | | | | | | | |
| 12... | 1.4 | -- | 107 | -- | 88 | 27 | 14 | -- | -- | .37 |
| 27... | 1.4 | -- | 102 | -- | 84 | 30 | 14 | -- | -- | .53 |
| SEP. | | | | | | | | | | |
| 10... | 1.4 | -- | 110 | -- | 90 | 27 | 11 | -- | -- | .52 |
| 25... | 1.3 | -- | 104 | -- | 85 | 16 | 9.0 | -- | -- | .50 |

### 01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | .00 | .06 | .29 | .35 | 1.5 | .06 | -- | .03 | 130 | 146 |
| NOV. | | | | | | | | | | |
| 07... | .00 | .00 | .28 | .28 | 1.1 | .04 | -- | .03 | 114 | 162 |
| DEC. | | | | | | | | | | |
| 11... | .00 | .00 | .31 | .31 | 1.2 | .10 | -- | .02 | 111 | 185 |
| JAN. | | | | | | | | | | |
| 15... | .08 | .12 | .60 | .72 | 2.0 | .06 | -- | .02 | 124 | 156 |
| MAR. | | | | | | | | | | |
| 11... | .07 | .25 | .20 | .45 | 1.4 | .04 | -- | .02 | 102 | 133 |
| APR. | | | | | | | | | | |
| 08... | .02 | .08 | .22 | .30 | 1.3 | .07 | -- | .03 | 105 | 151 |
| 22... | .01 | .20 | .09 | .29 | 1.0 | .03 | -- | .02 | 84 | 107 |
| MAY | | | | | | | | | | |
| 07... | .02 | .26 | .41 | .67 | 1.4 | .06 | .02 | -- | -- | 160 |
| 20... | .08 | .04 | -- | -- | -- | .03 | .01 | -- | -- | 152 |
| JUNE | | | | | | | | | | |
| 03... | .04 | .15 | -- | -- | -- | .03 | .01 | -- | -- | 159 |
| 17... | .03 | .21 | .47 | .68 | 1.3 | .04 | .01 | -- | -- | 191 |
| JULY | | | | | | | | | | |
| 01... | .30 | .11 | .38 | .49 | 1.4 | .07 | .02 | -- | -- | 177 |
| 15... | .04 | .25 | .60 | .85 | 1.5 | .05 | .02 | -- | -- | 189 |
| 29... | .04 | .21 | .41 | .62 | 1.2 | .04 | .01 | -- | -- | 197 |
| AUG. | | | | | | | | | | |
| 12... | .04 | .25 | .26 | .51 | .92 | .03 | .01 | -- | -- | 256 |
| 27... | .02 | .54 | .29 | .83 | 1.4 | .10 | .01 | -- | -- | 263 |
| SEP. | | | | | | | | | | |
| 10... | .07 | .39 | .13 | .52 | 1.1 | .07 | .03 | -- | -- | 190 |
| 25... | .03 | .34 | .17 | .51 | 1.0 | .06 | .01 | -- | -- | 162 |

| DATE | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 96 | 7 | 0 | 92 | 22 | 243 | 7.3 | -- | -- | 10 |
| NOV. | | | | | | | | | | |
| 07... | 112 | 14 | 8 | 83 | 21 | 214 | 7.3 | -- | -- | 10 |
| DEC. | | | | | | | | | | |
| 11... | 147 | 52 | 47 | 87 | 24 | 204 | 7.5 | -- | -- | 16 |
| JAN. | | | | | | | | | | |
| 15... | 128 | 20 | 16 | 91 | 23 | 227 | 7.5 | -- | -- | 11 |
| MAR. | | | | | | | | | | |
| 11... | 112 | 28 | 21 | 83 | 20 | 191 | 7.5 | -- | -- | 13 |
| APR. | | | | | | | | | | |
| 08... | 135 | 30 | 24 | 82 | 12 | 190 | 7.6 | -- | -- | 13 |
| 22... | 92 | 6 | 6 | 67 | 17 | 154 | 7.5 | -- | -- | 8 |
| MAY | | | | | | | | | | |
| 07... | 101 | 12 | 7 | -- | -- | 219 | 7.6 | -- | -- | 11 |
| 20... | 120 | 10 | 8 | -- | -- | 179 | 7.7 | -- | -- | 8 |
| JUNE | | | | | | | | | | |
| 03... | 119 | 3 | 3 | -- | -- | 239 | 8.0 | -- | -- | 9 |
| 17... | 151 | 4 | 1 | -- | -- | 289 | 7.9 | -- | -- | 11 |
| JULY | | | | | | | | | | |
| 01... | 133 | 6 | 4 | -- | -- | 257 | 7.3 | -- | -- | 7 |
| 15... | 140 | 20 | 18 | -- | -- | 204 | 6.8 | 4 | 7 | 12 |
| 29... | 160 | 14 | 12 | -- | -- | 246 | 7.9 | 3 | 6 | 11 |
| AUG. | | | | | | | | | | |
| 12... | 172 | 6 | 2 | -- | -- | 269 | -- | 2 | 3 | 14 |
| 27... | 203 | 17 | 11 | -- | -- | 282 | -- | 6 | 8 | 16 |
| SEP. | | | | | | | | | | |
| 10... | 158 | 8 | 5 | -- | -- | 281 | -- | 8 | 8 | 15 |
| 25... | 140 | 18 | 9 | -- | -- | 265 | -- | 6 | 6 | 14 |

CONTINUED NEXT PAGE

## 01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | CHLOROPHYLL A (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 07... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 15... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 08... | -- | .0 | -- | 1 | 0 | 10 | 20 | 3 | <.5 | 30 |
| 22... | -- | .0 | -- | 1 | -- | -- | 20 | 1 | <.5 | -- |
| MAY | | | | | | | | | | |
| 07... | -- | .0 | -- | 1 | 1 | 10 | 20 | 6 | <.5 | 20 |
| 20... | -- | .0 | -- | 1 | 0 | 10 | 10 | 2 | <.5 | 30 |
| JUNE | | | | | | | | | | |
| 03... | -- | .0 | -- | 1 | 0 | 10 | 10 | 6 | <.5 | 20 |
| 17... | -- | .0 | -- | <1 | 0 | 20 | 10 | 0 | <.5 | 140 |
| JULY | | | | | | | | | | |
| 01... | -- | .0 | -- | 3 | 1 | 20 | 10 | 6 | <.5 | 40 |
| 15... | 4.1 | -- | 4.7 | 2 | 0 | <10 | 10 | 4 | <.5 | 60 |
| 29... | 4.4 | -- | -- | <1 | 0 | 10 | 20 | 5 | <.5 | 230 |
| AUG. | | | | | | | | | | |
| 12... | 5.0 | -- | -- | 1 | 0 | 0 | 10 | 1 | <.5 | 80 |
| 27... | 4.7 | -- | -- | <1 | 1 | 10 | 0 | 7 | <.5 | 60 |
| SEP. | | | | | | | | | | |
| 10... | 5.8 | -- | -- | 1 | 1 | 20 | 0 | 4 | <.5 | 170 |
| 25... | 9.4 | -- | -- | <1 | 1 | 0 | 10 | 2 | <.5 | 0 |

## 01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.

LOCATION.--Lat 42°55'03", long 74°08'31", Montgomery County, at Erie (Barge) Canal Lock 10, 0.2 mi (0.3 km) upstream from Evas Kill, 0.3 mi (0.5 km) west of Cranesville, and 0.8 mi (1.3 km) downstream from Terwilleger Creek.

DRAINAGE AREA.--3,220 mi$^2$ (8,340 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 1000 | 2.5 | 260 | 40 | -- | 31 | -- | 5.9 | -- | 13 |
| 23... | 1045 | 3.0 | 210 | 40 | -- | 34 | -- | 5.9 | -- | 12 |
| NOV. | | | | | | | | | | |
| 07... | 1300 | 5.2 | 530 | 70 | -- | 29 | -- | 5.8 | -- | 7.5 |
| 27... | 1215 | 4.0 | 490 | 60 | -- | 28 | -- | 4.9 | -- | 5.5 |
| DEC. | | | | | | | | | | |
| 11... | 1411 | 3.9 | 2800 | 120 | -- | 32 | -- | 5.1 | -- | 6.2 |
| JAN. | | | | | | | | | | |
| 02... | 1625 | 4.0 | 660 | 30 | -- | 26 | -- | 4.5 | -- | 5.2 |
| 15... | 1400 | 4.1 | 670 | 60 | -- | 28 | -- | 4.6 | -- | 6.8 |
| 28... | 1230 | 3.6 | 4100 | 130 | -- | 27 | -- | 3.5 | -- | 4.8 |
| FEB. | | | | | | | | | | |
| 13... | 1315 | 4.4 | 280 | 40 | -- | 28 | -- | 4.6 | -- | 6.1 |
| 25... | 1600 | 3.4 | 630 | 20 | -- | 23 | -- | 3.7 | -- | 8.1 |
| MAR. | | | | | | | | | | |
| 11... | 1340 | 3.4 | 660 | 40 | -- | 23 | -- | 3.7 | -- | 4.0 |
| 25... | 1645 | 3.7 | 810 | 40 | -- | 24 | -- | 4.9 | -- | 6.4 |
| APR. | | | | | | | | | | |
| 08... | 1410 | 3.7 | 1000 | 40 | -- | 21 | -- | 3.4 | -- | 4.0 |
| 22... | 1515 | 3.5 | 410 | 50 | -- | 22 | -- | 3.6 | -- | 4.0 |
| MAY | | | | | | | | | | |
| 07... | 1345 | 3.3 | 220 | 50 | 28 | -- | 5.1 | -- | 6.1 | -- |
| 20... | 1600 | 3.4 | 400 | 30 | 32 | -- | 3.9 | -- | 4.1 | -- |
| JUNE | | | | | | | | | | |
| 03... | 1540 | 2.3 | 290 | 40 | 37 | -- | 5.5 | -- | 8.6 | -- |
| 17... | 1440 | .1 | 280 | 60 | 33 | -- | 6.3 | -- | 10 | -- |
| JULY | | | | | | | | | | |
| 01... | 1430 | 1.5 | 240 | 50 | 34 | -- | 6.2 | -- | 9.0 | -- |
| 15... | 1415 | -- | 670 | 70 | 36 | -- | 5.8 | -- | 7.5 | -- |
| 29... | 1400 | -- | 270 | 40 | 36 | -- | 6.2 | -- | 11 | -- |
| AUG. | | | | | | | | | | |
| 12... | 1345 | -- | 50 | 10 | 44 | -- | 7.2 | -- | 12 | -- |
| 27... | 1255 | -- | 320 | 50 | 34 | -- | 6.3 | -- | 12 | -- |
| SEP. | | | | | | | | | | |
| 10... | 1520 | -- | 370 | 50 | 40 | -- | 6.8 | -- | 8.0 | -- |
| 25... | 1515 | -- | 400 | 50 | 35 | -- | 6.8 | -- | 6.4 | -- |

| DATE | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | 1.5 | 94 | 0 | 77 | 31 | 16 | -- | .4 | 1.3 |
| 23... | -- | 1.4 | 92 | 0 | 75 | 31 | 16 | -- | .3 | 1.1 |
| NOV. | | | | | | | | | | |
| 07... | -- | 1.3 | 88 | 0 | 72 | 28 | 9.0 | -- | .3 | .91 |
| 27... | -- | 1.3 | 75 | 0 | 62 | 22 | 7.1 | -- | .3 | .72 |
| DEC. | | | | | | | | | | |
| 11... | -- | 2.0 | 85 | 0 | 70 | 25 | 9.1 | -- | .2 | .89 |
| JAN. | | | | | | | | | | |
| 02... | -- | 1.2 | 74 | 0 | 61 | 20 | 9.6 | -- | .3 | .89 |
| 15... | -- | 1.1 | 77 | 0 | 63 | 22 | 9.2 | -- | .0 | 1.0 |
| 28... | -- | 1.8 | 66 | 0 | 54 | 23 | 8.0 | -- | .1 | .96 |
| FEB. | | | | | | | | | | |
| 13... | -- | 1.0 | 86 | 0 | 71 | 23 | 10 | -- | .1 | .94 |
| 25... | -- | 1.2 | 65 | 0 | 53 | 18 | 9.0 | -- | .1 | .79 |
| MAR. | | | | | | | | | | |
| 11... | -- | 1.1 | 66 | 0 | 54 | 17 | 6.4 | -- | .1 | .71 |
| 25... | -- | 1.3 | 78 | 0 | 64 | 21 | 11 | -- | .2 | .73 |
| APR. | | | | | | | | | | |
| 08... | -- | 1.3 | 60 | 0 | 49 | 16 | 6.1 | -- | .2 | .71 |
| 22... | -- | 1.0 | 62 | 0 | 51 | 17 | 5.4 | -- | .0 | .69 |
| MAY | | | | | | | | | | |
| 07... | 1.0 | -- | 89 | 0 | 73 | 22 | 9.0 | .1 | -- | .62 |
| 20... | 1.1 | -- | 75 | 0 | 62 | 18 | 21 | .1 | -- | .65 |
| JUNE | | | | | | | | | | |
| 03... | 1.1 | -- | 98 | 0 | 80 | 28 | 12 | .1 | -- | .55 |
| 17... | 1.4 | -- | 94 | 0 | 77 | 27 | 14 | .2 | -- | .69 |
| JULY | | | | | | | | | | |
| 01... | 1.4 | -- | 107 | 0 | 88 | 31 | 12 | .1 | -- | .61 |
| 15... | 1.5 | -- | 113 | 0 | 93 | 23 | 10 | -- | -- | .51 |
| 29... | 1.5 | -- | 96 | 0 | 79 | 20 | 16 | -- | -- | .57 |
| AUG. | | | | | | | | | | |
| 12... | 2.0 | -- | 114 | -- | 94 | 36 | 18 | -- | -- | .53 |
| 27... | 1.3 | -- | 98 | -- | 80 | 30 | 16 | -- | -- | .52 |
| SEP. | | | | | | | | | | |
| 10... | 1.8 | -- | 112 | -- | 92 | 26 | 12 | -- | -- | .65 |
| 25... | 1.5 | -- | 108 | -- | 89 | 28 | 9.5 | -- | -- | .52 |

CONTINUED NEXT PAGE

## 01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | .00 | .06 | .23 | .29 | 1.6 | .06 | -- | .03 | 148 | 167 |
| 23... | .00 | .04 | .25 | .29 | 1.4 | .12 | -- | .04 | 149 | 85 |
| NOV. | | | | | | | | | | |
| 07... | .00 | .00 | .33 | .33 | 1.2 | .06 | -- | .03 | 130 | 95 |
| 27... | .00 | .09 | .06 | .15 | .87 | .03 | -- | .02 | 110 | 138 |
| DEC. | | | | | | | | | | |
| 11... | .00 | .01 | .49 | .50 | 1.4 | .14 | -- | .03 | 125 | 200 |
| JAN. | | | | | | | | | | |
| 02... | .07 | .04 | .11 | .15 | 1.1 | .04 | -- | .01 | 107 | 147 |
| 15... | .10 | .11 | .25 | .36 | 1.5 | .06 | -- | .02 | 114 | 149 |
| 28... | .04 | .30 | .41 | .71 | 1.7 | .20 | -- | .06 | 104 | 248 |
| FEB. | | | | | | | | | | |
| 13... | .01 | .19 | .29 | .48 | 1.4 | .03 | -- | .02 | 120 | 136 |
| 25... | .03 | .18 | .23 | .41 | 1.2 | .06 | -- | .03 | 99 | 125 |
| MAR. | | | | | | | | | | |
| 11... | .03 | .16 | .15 | .31 | 1.0 | .04 | -- | .02 | 91 | 130 |
| 25... | .02 | .21 | .19 | .40 | 1.1 | .04 | -- | .03 | 111 | 135 |
| APR. | | | | | | | | | | |
| 08... | .05 | .08 | .20 | .28 | 1.0 | .05 | -- | .03 | 85 | 115 |
| 22... | .01 | .15 | .09 | .24 | .94 | .03 | -- | .02 | 87 | 108 |
| MAY | | | | | | | | | | |
| 07... | .03 | .07 | .26 | .33 | .98 | .08 | .06 | -- | -- | 150 |
| 20... | .09 | .05 | .12 | .17 | .71 | .04 | .02 | -- | -- | 126 |
| JUNE | | | | | | | | | | |
| 03... | .04 | .09 | .41 | .50 | 1.1 | .03 | .00 | -- | -- | 60 |
| 17... | .04 | .18 | .48 | .66 | 1.2 | .04 | .01 | -- | -- | 178 |
| JULY | | | | | | | | | | |
| 01... | .14 | .13 | .50 | .63 | 1.4 | .11 | .07 | -- | -- | 193 |
| 15... | .04 | .19 | .42 | .61 | 1.2 | .08 | .01 | -- | -- | 194 |
| 29... | .05 | .16 | .09 | .25 | .87 | .05 | .01 | -- | -- | 236 |
| AUG. | | | | | | | | | | |
| 12... | .04 | .14 | .11 | .25 | .82 | .04 | .05 | -- | -- | 278 |
| 27... | .03 | .45 | .28 | .73 | 1.3 | .08 | .03 | -- | -- | 197 |
| SEP. | | | | | | | | | | |
| 10... | .03 | .25 | .41 | .66 | 1.1 | .06 | .02 | -- | -- | 190 |
| 25... | .02 | .30 | .30 | .60 | 1.1 | .07 | .01 | -- | -- | 173 |

| DATE | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 120 | 8 | 4 | 100 | 25 | 280 | 7.3 | -- | -- | 10 |
| 23... | 75 | 2 | 0 | 110 | 34 | 275 | 7.2 | -- | -- | 8 |
| NOV. | | | | | | | | | | |
| 07... | 49 | 19 | 14 | 96 | 24 | 239 | 7.7 | -- | -- | 10 |
| 27... | 104 | 15 | 0 | 90 | 29 | 205 | 7.4 | -- | -- | 10 |
| DEC. | | | | | | | | | | |
| 11... | 171 | 66 | 62 | 100 | 31 | 230 | 7.5 | -- | -- | 19 |
| JAN. | | | | | | | | | | |
| 02... | 111 | 17 | 16 | 83 | 23 | 203 | 7.5 | -- | -- | 8 |
| 15... | 123 | 18 | 15 | 89 | 26 | 211 | 7.6 | -- | -- | 8 |
| 28... | 219 | 155 | 142 | 82 | 28 | 182 | 7.7 | -- | -- | 19 |
| FEB. | | | | | | | | | | |
| 13... | 106 | 9 | 8 | 89 | 18 | 224 | 7.6 | -- | -- | 7 |
| 25... | 97 | 14 | 10 | 73 | 19 | 186 | 7.6 | -- | -- | 11 |
| MAR. | | | | | | | | | | |
| 11... | 109 | 32 | 26 | 73 | 19 | 176 | 7.5 | -- | -- | 9 |
| 25... | 106 | 15 | 13 | 80 | 16 | 194 | 7.8 | -- | -- | 10 |
| APR. | | | | | | | | | | |
| 08... | 85 | 25 | 22 | 66 | 17 | 148 | 7.6 | -- | -- | 9 |
| 22... | 108 | 8 | 8 | 70 | 19 | 160 | 7.6 | -- | -- | 9 |
| MAY | | | | | | | | | | |
| 07... | -- | 9 | 5 | -- | -- | 217 | 7.8 | -- | -- | 11 |
| 20... | 100 | 14 | 13 | -- | -- | 189 | 7.9 | -- | -- | 9 |
| JUNE | | | | | | | | | | |
| 03... | 27 | 6 | 2 | -- | -- | 200 | 8.1 | -- | -- | 11 |
| 17... | 138 | 4 | 2 | -- | -- | 272 | 8.0 | -- | -- | 10 |
| JULY | | | | | | | | | | |
| 01... | 151 | 11 | 8 | -- | -- | 279 | 7.5 | -- | -- | 9 |
| 15... | 167 | 20 | 15 | -- | -- | 268 | 7.8 | 3 | 9 | 13 |
| 29... | 196 | 16 | 10 | -- | -- | 264 | 8.0 | 3 | 5 | 16 |
| AUG. | | | | | | | | | | |
| 12... | 218 | 11 | 9 | -- | -- | 300 | -- | 3 | 3 | 15 |
| 27... | 194 | 20 | 16 | -- | -- | 293 | -- | 2 | 9 | 13 |
| SEP. | | | | | | | | | | |
| 10... | 163 | 8 | 8 | -- | -- | 279 | -- | 6 | 8 | 10 |
| 25... | 191 | 19 | 10 | -- | -- | 289 | -- | 7 | 8 | 19 |

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | CHLORO-PHYLL A (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | .0 | -- | <1 | -- | -- | 10 | 9 | 2.1 | -- |
| NOV. | | | | | | | | | | |
| 07... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 02... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 13... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 08... | -- | .0 | -- | 2 | 0 | 10 | 10 | 0 | <.5 | 30 |
| 22... | -- | .0 | -- | 1 | -- | -- | 20 | 3 | <.5 | -- |
| MAY | | | | | | | | | | |
| 07... | -- | .0 | -- | 3 | 2 | 0 | 140 | 3 | <.5 | 10 |
| 20... | -- | .0 | -- | 2 | 0 | 10 | 10 | 2 | <.5 | 590 |
| JUNE | | | | | | | | | | |
| 03... | -- | .0 | -- | 2 | 0 | 10 | 0 | 5 | <.5 | 40 |
| 17... | -- | .0 | -- | <1 | 0 | 10 | 10 | 0 | <.5 | 210 |
| JULY | | | | | | | | | | |
| 01... | -- | .0 | -- | 1 | 2 | 10 | 130 | 25 | <.5 | 50 |
| 15... | 3.2 | -- | 0.7 | 3 | 0 | 10 | 10 | 3 | <.5 | 40 |
| 29... | 5.4 | -- | -- | 1 | 0 | 10 | 20 | 14 | <.5 | 80 |
| AUG. | | | | | | | | | | |
| 12... | 4.1 | -- | -- | 1 | 0 | <10 | 20 | 0 | <.5 | 100 |
| 27... | 4.3 | -- | -- | 1 | 0 | 10 | 10 | 7 | <.5 | 20 |
| SEP. | | | | | | | | | | |
| 10... | 6.7 | -- | -- | 0 | 1 | <10 | 0 | 3 | <.5 | 10 |
| 25... | 6.8 | -- | -- | <1 | 1 | 20 | 10 | 8 | <.5 | 0 |

## 01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.

LOCATION.--Lat 42°49'07", long 73°56'59", Schenectady County, at abutment of former bridge at end of Washington Avenue in Schenectady, 0.3 mi (0.5 km) downstream from Western Gateway Bridge, and 1.0 mi (1.6 km) upstream from Collins Creek.

DRAINAGE AREA.--3,302 mi² (8,552 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 0900 | 1.2 | 440 | 150 | -- | 34 | -- | 6.6 | -- | 13 |
| 23... | 1425 | 1.6 | 280 | 50 | -- | 33 | -- | 6.5 | -- | 13 |
| NOV. | | | | | | | | | | |
| 07... | 1345 | 4.8 | 360 | 60 | -- | 31 | -- | 6.2 | -- | 10 |
| 27... | 1300 | 4.2 | 550 | 60 | -- | 32 | -- | 5.5 | -- | 7.5 |
| DEC. | | | | | | | | | | |
| 11... | 1445 | 4.1 | 3300 | 180 | -- | 30 | -- | 5.4 | -- | 6.0 |
| JAN. | | | | | | | | | | |
| 02... | 1700 | 4.1 | 710 | 50 | -- | 27 | -- | 5.1 | -- | 5.7 |
| 15... | 1500 | 4.4 | 420 | 60 | -- | 31 | -- | 5.5 | -- | 8.6 |
| 28... | 1155 | 3.7 | 7200 | 190 | -- | 31 | -- | 4.0 | -- | 5.0 |
| FEB. | | | | | | | | | | |
| 13... | 1350 | 4.7 | 280 | 50 | -- | 31 | -- | 5.2 | -- | 7.5 |
| MAR. | | | | | | | | | | |
| 11... | 1430 | 3.8 | 880 | 50 | -- | 26 | -- | 4.2 | -- | 5.5 |
| 25... | 1140 | 4.0 | 950 | 40 | -- | 29 | -- | 5.2 | -- | 6.5 |
| APR. | | | | | | | | | | |
| 08... | 1315 | 3.9 | 1200 | 60 | -- | 23 | -- | 4.0 | -- | 4.4 |
| 22... | 1200 | 3.6 | 490 | 60 | -- | 22 | -- | 3.6 | -- | 4.5 |
| MAY | | | | | | | | | | |
| 07... | 1500 | 3.5 | 490 | 60 | 28 | -- | 5.2 | -- | 6.6 | -- |
| 20... | 1645 | 3.6 | 420 | 30 | 32 | -- | 4.4 | -- | 4.5 | -- |
| JUNE | | | | | | | | | | |
| 03... | 1440 | 2.4 | 360 | 40 | 31 | -- | 5.7 | -- | 9.0 | -- |
| 17... | 1400 | .3 | 800 | 80 | 35 | -- | 6.4 | -- | 11 | -- |
| JULY | | | | | | | | | | |
| 01... | 1515 | .2 | 310 | 50 | 34 | -- | 6.0 | -- | 12 | -- |
| 15... | 1335 | -- | 780 | 80 | 33 | -- | 5.5 | -- | 7.5 | -- |
| 29... | 1320 | -- | 630 | 50 | 39 | -- | 6.9 | -- | 9.0 | -- |
| AUG. | | | | | | | | | | |
| 12... | 1315 | -- | 360 | 50 | 38 | -- | 7.0 | -- | 11 | -- |
| 27... | 1225 | -- | 450 | 60 | 35 | -- | 7.0 | -- | 12 | -- |
| SEP. | | | | | | | | | | |
| 10... | 1430 | -- | 930 | 90 | 37 | -- | 6.6 | -- | 2.5 | -- |
| 25... | 1200 | -- | 500 | 80 | 32 | -- | 6.4 | -- | 6.3 | -- |

| DATE | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | 1.7 | 108 | 0 | 89 | 32 | 17 | -- | .4 | 1.2 |
| 23... | -- | 1.7 | 103 | 0 | 84 | 32 | 17 | -- | .3 | 1.4 |
| NOV. | | | | | | | | | | |
| 07... | -- | 1.6 | 95 | 0 | 78 | 31 | 14 | -- | .3 | .97 |
| 27... | -- | 1.5 | 86 | 0 | 71 | 26 | 10 | -- | .3 | .88 |
| DEC. | | | | | | | | | | |
| 11... | -- | 1.8 | 83 | 0 | 68 | 26 | 8.6 | -- | .2 | .91 |
| JAN. | | | | | | | | | | |
| 02... | -- | 1.3 | 81 | 0 | 66 | 20 | 9.9 | -- | .3 | 1.0 |
| 15... | -- | 1.2 | 91 | 0 | 75 | 25 | 12 | -- | .0 | 1.1 |
| 28... | -- | 1.7 | 74 | 0 | 61 | 26 | 8.5 | -- | .3 | 1.0 |
| FEB. | | | | | | | | | | |
| 13... | -- | 1.1 | 89 | 0 | 73 | 25 | 12 | -- | .1 | .98 |
| MAR. | | | | | | | | | | |
| 11... | -- | 1.2 | 76 | 0 | 62 | 18 | 8.7 | -- | .2 | .78 |
| 25... | -- | 1.6 | 82 | 0 | 67 | 21 | 11 | -- | .1 | .75 |
| APR. | | | | | | | | | | |
| 08... | -- | 1.6 | 70 | 0 | 57 | 16 | 6.9 | -- | .1 | .86 |
| 22... | -- | 1.1 | 63 | 0 | 52 | 16 | 6.8 | -- | .1 | .78 |
| MAY | | | | | | | | | | |
| 07... | 1.2 | -- | 87 | 0 | 71 | 21 | 9.8 | .3 | -- | .63 |
| 20... | 1.3 | -- | 76 | 0 | 62 | 16 | 6.8 | .1 | -- | .95 |
| JUNE | | | | | | | | | | |
| 03... | 1.1 | -- | 103 | 0 | 84 | 23 | 13 | .2 | -- | .57 |
| 17... | 1.2 | -- | 102 | 0 | 84 | 28 | 15 | .2 | -- | .68 |
| JULY | | | | | | | | | | |
| 01... | 1.5 | -- | 107 | 0 | 88 | 27 | 16 | .2 | -- | .67 |
| 15... | 2.6 | -- | 116 | 0 | 95 | 23 | 11 | -- | -- | .95 |
| 29... | 1.8 | -- | 108 | 0 | 89 | 28 | 12 | -- | -- | .54 |
| AUG. | | | | | | | | | | |
| 12... | 1.9 | -- | 121 | -- | 99 | 32 | 15 | -- | -- | .51 |
| 27... | 1.3 | -- | 118 | -- | 98 | 30 | 16 | -- | -- | .58 |
| SEP. | | | | | | | | | | |
| 10... | 1.7 | -- | 110 | -- | 90 | 26 | 11 | -- | -- | .48 |
| 25... | 1.5 | -- | 103 | -- | 84 | 16 | 8.8 | -- | -- | .67 |

## 01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | .00 | .09 | .57 | .66 | 1.9 | .04 | -- | .03 | 159 | 186 |
| 23... | .01 | .05 | .35 | .40 | 1.8 | .06 | -- | .03 | 156 | 177 |
| NOV. | | | | | | | | | | |
| 07... | .00 | .00 | .30 | .30 | 1.3 | .06 | -- | .04 | 146 | 74 |
| 27... | .00 | .13 | .07 | .20 | 1.1 | .07 | -- | .04 | 129 | 162 |
| DEC. | | | | | | | | | | |
| 11... | .00 | .01 | .31 | .32 | 1.2 | .11 | -- | .03 | 123 | 202 |
| JAN. | | | | | | | | | | |
| 02... | .09 | .06 | .17 | .23 | 1.3 | .04 | -- | .01 | 113 | 158 |
| 15... | .34 | .10 | .58 | .68 | 2.1 | .08 | -- | .02 | 133 | 176 |
| 28... | .05 | .37 | .55 | .92 | 2.0 | .30 | -- | .07 | 117 | 255 |
| FEB. | | | | | | | | | | |
| 13... | .01 | .21 | .26 | .47 | 1.5 | .04 | -- | .03 | 131 | 150 |
| MAR. | | | | | | | | | | |
| 11... | .07 | .16 | .25 | .41 | 1.3 | .07 | -- | .03 | 105 | 136 |
| 25... | .05 | .26 | .84 | 1.1 | 1.9 | .10 | -- | .04 | 119 | 152 |
| APR. | | | | | | | | | | |
| 08... | .01 | .08 | .27 | .35 | 1.2 | .06 | -- | .03 | 94 | 148 |
| 22... | .01 | .17 | .08 | .25 | .96 | .03 | -- | .02 | 89 | 112 |
| MAY | | | | | | | | | | |
| 07... | .03 | .11 | .28 | .39 | 1.1 | .07 | .04 | -- | -- | 159 |
| 20... | .10 | .06 | -- | -- | -- | .04 | .02 | -- | -- | 147 |
| JUNE | | | | | | | | | | |
| 03... | .03 | .09 | .34 | .43 | 1.0 | .04 | .00 | -- | -- | 166 |
| 17... | .04 | .20 | .46 | .66 | 1.2 | .06 | .02 | -- | -- | 195 |
| JULY | | | | | | | | | | |
| 01... | .17 | .10 | .54 | .64 | 1.5 | .09 | .02 | -- | -- | 201 |
| 15... | .03 | .29 | .81 | 1.1 | 1.7 | .07 | .02 | -- | -- | 207 |
| 29... | .04 | .13 | .22 | .35 | .93 | .04 | .01 | -- | -- | 203 |
| AUG. | | | | | | | | | | |
| 12... | .03 | .23 | .07 | .30 | .84 | .06 | .01 | -- | -- | 272 |
| 27... | .03 | .37 | .41 | .78 | 1.4 | .11 | .04 | -- | -- | 208 |
| SEP. | | | | | | | | | | |
| 10... | .02 | .29 | .29 | .58 | 1.1 | .07 | .03 | -- | -- | 196 |
| 25... | .02 | .31 | .17 | .48 | 1.4 | .05 | .02 | -- | -- | 170 |

| DATE | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 138 | 24 | 12 | 110 | 23 | 302 | 7.4 | -- | -- | 10 |
| 23... | 151 | 4 | 2 | 110 | 25 | 302 | 7.2 | -- | -- | 9 |
| NOV. | | | | | | | | | | |
| 07... | 63 | 23 | 18 | 100 | 25 | 272 | 7.4 | -- | -- | 10 |
| 27... | 134 | 15 | 12 | 100 | 32 | 235 | 7.3 | -- | -- | 11 |
| DEC. | | | | | | | | | | |
| 11... | 175 | 71 | 64 | 97 | 29 | 224 | 7.4 | -- | -- | 20 |
| JAN. | | | | | | | | | | |
| 02... | 117 | 20 | 17 | 88 | 22 | 215 | 7.5 | -- | -- | 8 |
| 15... | 140 | 26 | 19 | 100 | 25 | 246 | 7.4 | -- | -- | 13 |
| 28... | 232 | 210 | 196 | 94 | 33 | 197 | 7.6 | -- | -- | 30 |
| FEB. | | | | | | | | | | |
| 13... | 121 | 10 | 8 | 99 | 26 | 240 | 7.5 | -- | -- | 8 |
| MAR. | | | | | | | | | | |
| 11... | 115 | 30 | 24 | 82 | 20 | 200 | 7.5 | -- | -- | 13 |
| 25... | 113 | 26 | 25 | 94 | 27 | 204 | 7.7 | -- | -- | 12 |
| APR. | | | | | | | | | | |
| 08... | 133 | 28 | 23 | 74 | 16 | 177 | 7.5 | -- | -- | 10 |
| 22... | 95 | 9 | 8 | 70 | 18 | 166 | 7.5 | -- | -- | 9 |
| MAY | | | | | | | | | | |
| 07... | 105 | 15 | 10 | -- | -- | 218 | 7.8 | -- | -- | 11 |
| 20... | 124 | 14 | 11 | -- | -- | 192 | 7.9 | -- | -- | 10 |
| JUNE | | | | | | | | | | |
| 03... | 135 | 8 | 7 | -- | -- | 246 | 8.2 | -- | -- | 11 |
| 17... | 143 | 21 | 20 | -- | -- | 267 | 7.8 | -- | -- | 9 |
| JULY | | | | | | | | | | |
| 01... | 161 | 18 | 14 | -- | -- | 285 | 7.4 | -- | -- | 13 |
| 15... | 152 | 22 | 18 | -- | -- | 278 | 7.8 | 10 | 10 | 16 |
| 29... | 190 | 23 | 20 | -- | -- | 269 | 8.1 | 2 | 8 | 13 |
| AUG. | | | | | | | | | | |
| 12... | 182 | 14 | 13 | -- | -- | 317 | -- | 3 | 6 | 16 |
| 27... | 159 | 14 | 6 | -- | -- | 308 | -- | 6 | 8 | 15 |
| SEP. | | | | | | | | | | |
| 10... | 157 | 18 | 7 | -- | -- | -- | -- | 9 | 9 | 16 |
| 25... | 146 | 20 | 10 | -- | -- | 264 | -- | 7 | 9 | 15 |

CONTINUED NEXT PAGE

## 01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | CHLORO-PHYLL A (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | .0 | -- | 1 | -- | -- | 10 | 7 | 2.4 | -- |
| NOV. | | | | | | | | | | |
| 07... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 27... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 02... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 13... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 08... | -- | .0 | -- | 1 | 0 | 20 | 20 | 1 | <.5 | 60 |
| 22... | -- | .0 | -- | 1 | -- | -- | 10 | 2 | <.5 | -- |
| MAY | | | | | | | | | | |
| 07... | -- | .0 | -- | <1 | 3 | <10 | 30 | 11 | <.5 | 30 |
| 20... | -- | -- | -- | 2 | 0 | 10 | 0 | 2 | <.5 | 60 |
| JUNE | | | | | | | | | | |
| 03... | -- | .0 | -- | 5 | 0 | 10 | 10 | 4 | <.5 | 20 |
| 17... | -- | .0 | -- | <1 | 0 | 20 | 10 | 2 | <.5 | 50 |
| JULY | | | | | | | | | | |
| 01... | -- | .0 | -- | 2 | 1 | 10 | 20 | 25 | <.5 | 60 |
| 15... | 6.2 | -- | 7.3 | 2 | 1 | <10 | 20 | 11 | <.5 | 80 |
| 29... | 6.4 | -- | -- | 0 | 0 | 10 | 20 | 16 | <.5 | 70 |
| AUG. | | | | | | | | | | |
| 12... | 5.0 | -- | -- | 2 | 0 | 0 | 10 | 5 | <.5 | 80 |
| 27... | 8.5 | -- | -- | 0 | 1 | <10 | 10 | 10 | <.5 | 50 |
| SEP. | | | | | | | | | | |
| 10... | 7.5 | -- | -- | 6 | 1 | 10 | 10 | 4 | <.5 | 400 |
| 25... | 6.9 | -- | -- | <1 | 3 | 20 | 10 | 5 | <.5 | 0 |

## 01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.

**LOCATION.**--Lat 42°48'27", long 73°50'39", Saratoga County, at bridge crossing headrace of Vischer Ferry powerplant operated by New York State Department of Transportation at Vischer Ferry Dam.

**DRAINAGE AREA.**--3,385 mi$^2$ (8,767 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: October 1951 to September 1953.
Water temperatures: October 1951 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures: Maximum, 25.5°C July 19, 28, Aug. 30 minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 29.5°C Aug. 5, 1955; minimum, freezing point on many days during winter periods.

**REMARKS.**-- Additional water quality data available from New York State Department of Environmental Conservation.

**COOPERATION.**--Water temperature record furnished by New York State Department of Transportation.

### CHEMICAL ANALYSES

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|
| JUNE | | | | | | |
| 06... | 1000 | E3280 | <1 | 50 | 0 | <.5 |
| SEP. | | | | | | |
| 05... | 0900 | E5690 | 1 | 260 | 3 | <.5 |

E Estimated value.

CONTINUED NEXT PAGE

## 01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.--Continued

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(TWICE DAILY MEASUREMENTS AT 0800 AND 1600)

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 | 17.0 | 16.5 | 11.5 | 11.5 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 |
| 2 | 17.0 | 16.5 | 11.5 | 11.5 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 3 | 17.0 | 17.0 | 10.0 | 10.0 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 |
| 4 | 17.0 | 17.0 | 10.0 | 10.0 | 4.0 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 5 | 17.0 | 17.0 | 9.5 | 9.5 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 6 | 16.5 | 17.0 | 9.5 | 9.5 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 7 | 16.0 | 16.5 | 9.5 | 9.5 | 4.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 8 | 16.0 | 16.0 | 9.0 | 9.0 | 4.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 |
| 9 | 15.5 | 16.0 | 9.0 | 9.0 | 4.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 10 | 15.5 | 15.5 | 6.5 | 5.5 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 11 | 15.5 | 15.5 | 4.5 | 5.0 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 12 | 15.5 | 15.5 | 4.5 | 4.5 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 13 | 15.5 | 15.5 | 4.5 | 5.0 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 14 | 15.5 | 15.5 | 4.5 | 6.5 | 2.0 | 2.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.0 | 1.0 |
| 15 | 15.5 | 15.5 | 6.5 | 6.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 16 | 15.5 | 12.0 | 5.5 | 5.5 | 1.0 | 1.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.0 |
| 17 | 14.0 | 14.0 | 4.5 | 4.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.5 |
| 18 | 13.5 | 13.5 | 4.5 | 4.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.0 |
| 19 | 13.5 | 13.5 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.5 |
| 20 | 13.5 | 13.5 | 4.5 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 2.0 |
| 21 | 13.5 | 13.5 | 4.0 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.5 | 2.0 |
| 22 | 13.0 | 10.0 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.0 | 1.5 |
| 23 | 12.0 | 13.0 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.5 | 1.5 |
| 24 | 12.0 | 12.0 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 2.0 | 1.5 |
| 25 | 12.0 | 12.0 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.5 | 1.5 | 2.0 |
| 26 | 12.0 | 12.0 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.5 | 1.5 |
| 27 | 12.0 | 10.5 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.5 | 1.5 |
| 28 | 11.5 | 10.5 | 4.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.5 | 1.0 | 1.0 |
| 29 | 12.0 | 12.0 | 4.5 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | 1.5 | 1.5 |
| 30 | 11.5 | 11.5 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | 1.0 | 1.0 |
| 31 | 11.0 | 11.5 | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | 1.5 | 1.5 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 | 2.0 | 2.0 | 12.0 | 12.0 | 16.5 | 16.5 | 21.0 | 22.0 | 24.0 | 24.0 | 24.5 | 23.5 |
| 2 | 2.0 | 3.0 | 13.0 | 13.0 | 16.5 | 16.5 | 21.5 | 22.0 | 22.0 | 24.5 | 24.0 | 23.0 |
| 3 | 1.5 | 1.5 | 12.0 | 12.0 | 17.0 | 17.0 | 21.5 | 22.0 | 24.5 | 24.5 | 24.5 | 23.5 |
| 4 | 4.0 | 5.5 | 12.0 | 12.0 | 17.0 | 18.0 | 22.0 | 22.0 | 24.5 | 24.5 | 23.5 | 22.0 |
| 5 | 4.0 | 4.5 | 12.0 | 12.0 | 18.0 | 19.0 | 21.5 | 21.5 | 24.0 | 24.5 | 23.5 | 23.0 |
| 6 | 6.0 | 6.0 | 12.0 | 12.0 | 19.0 | 19.5 | 21.5 | 21.5 | 24.5 | 24.0 | 21.0 | 21.0 |
| 7 | 5.5 | 5.5 | 11.5 | 11.5 | 19.0 | 19.5 | 21.5 | 22.0 | 24.5 | 24.0 | 20.5 | 21.0 |
| 8 | 5.5 | 4.5 | 11.5 | 11.5 | 19.0 | 20.0 | 22.0 | 23.0 | 24.0 | 24.5 | 19.0 | 19.5 |
| 9 | 5.0 | 3.0 | 11.5 | 11.5 | 19.5 | 20.5 | 23.0 | 23.5 | 24.0 | 24.5 | 18.5 | 20.0 |
| 10 | 3.5 | 3.5 | 11.0 | 11.5 | 19.5 | 21.0 | 24.5 | 24.5 | 24.5 | 24.5 | 18.5 | 19.5 |
| 11 | 3.5 | 4.0 | 11.0 | 11.5 | 20.0 | 22.0 | 24.0 | 24.0 | 24.0 | 24.5 | 19.5 | 19.5 |
| 12 | 3.5 | 6.5 | 11.5 | 11.5 | 20.0 | 20.5 | 23.0 | 23.0 | 24.0 | 24.5 | 20.0 | 21.0 |
| 13 | 3.5 | 4.5 | 11.5 | 11.0 | 20.0 | 21.0 | 24.0 | 24.5 | 24.5 | 24.5 | 20.5 | 20.5 |
| 14 | 4.5 | 7.0 | 11.0 | 11.5 | 21.5 | 21.5 | 23.5 | 24.5 | 24.0 | 24.5 | 20.5 | 20.5 |
| 15 | 6.5 | 8.0 | 12.0 | 13.5 | 21.0 | 21.5 | 24.5 | 24.0 | 24.0 | 25.0 | 20.0 | 19.5 |
| 16 | 6.5 | 6.5 | 12.0 | 13.5 | 21.0 | 21.5 | 24.0 | 24.5 | 24.5 | 24.5 | 19.5 | 19.5 |
| 17 | 6.5 | 7.0 | 13.0 | 13.5 | 21.5 | 22.0 | 24.5 | 24.5 | 24.0 | 25.0 | 19.0 | 19.0 |
| 18 | 6.5 | 8.0 | 14.0 | 15.0 | 21.0 | 22.0 | 24.0 | 24.5 | 24.5 | 24.5 | 18.5 | 18.5 |
| 19 | 6.5 | 8.0 | 14.5 | 15.0 | 21.5 | 21.5 | 25.0 | 25.5 | 24.0 | 25.0 | 18.5 | 18.5 |
| 20 | 7.0 | 7.0 | 14.5 | 15.5 | 22.0 | 22.0 | 22.0 | 24.0 | 24.5 | 24.5 | 18.5 | 18.5 |
| 21 | 7.0 | 8.0 | 15.5 | 15.5 | 23.5 | 23.5 | 24.5 | 24.5 | 24.5 | 24.5 | 18.5 | 18.5 |
| 22 | 9.5 | 9.5 | 16.0 | 16.5 | 21.5 | 23.0 | 24.5 | 25.0 | 24.5 | 25.0 | 18.0 | 18.0 |
| 23 | 9.5 | 11.0 | 17.0 | 17.0 | 21.5 | 21.5 | 24.5 | 25.0 | 24.5 | 24.5 | 17.0 | 15.5 |
| 24 | 9.5 | 10.0 | 16.5 | 18.0 | 21.5 | 22.0 | 24.5 | 24.5 | 24.5 | 24.5 | 14.5 | 16.5 |
| 25 | 9.5 | 9.5 | 17.0 | 17.0 | 21.5 | 21.5 | 23.5 | 24.0 | 24.5 | 24.5 | 15.5 | 15.5 |
| 26 | 9.5 | 10.5 | 16.5 | 16.5 | 21.5 | 21.5 | 24.5 | 25.0 | 24.5 | 24.5 | 15.0 | 15.5 |
| 27 | 9.5 | 10.0 | 16.0 | 16.5 | 21.5 | 22.0 | 24.5 | 24.5 | 24.5 | 24.5 | 15.0 | 15.0 |
| 28 | 10.5 | 10.5 | 15.5 | 16.0 | 22.0 | 22.0 | 24.5 | 25.5 | 24.5 | 24.0 | 14.5 | 14.5 |
| 29 | 11.0 | 12.0 | 15.5 | 15.5 | 21.0 | 21.0 | 25.0 | 25.0 | 24.5 | 24.0 | 14.0 | 14.0 |
| 30 | 12.0 | 13.0 | 15.5 | 16.0 | 21.5 | 22.0 | 24.0 | 19.5 | 25.0 | 25.5 | 13.5 | 14.0 |
| 31 | --- | --- | 16.0 | 16.0 | --- | --- | 22.0 | 24.0 | 24.5 | 24.5 | --- | --- |

## 01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.

LOCATION.--Lat 42°48'22", long 73°43'24", Albany County, at hydroelectric station at Crescent Dam and 1.7 mi (2.7 km) upstream from gaging station (01357500) at Cohoes.

DRAINAGE AREA.--3,453 mi$^2$ (8,943 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 02... | 1320 | E1480 | .3 | 520 | 80 | -- | 36 | -- | 7.2 | -- | 17 |
| 16... | 1500 | E1430 | .2 | 880 | 100 | -- | 34 | -- | 6.3 | -- | 16 |
| 30... | 1250 | E1740 | .1 | 770 | 80 | -- | 32 | -- | 6.2 | -- | 14 |
| NOV. | | | | | | | | | | | |
| 13... | 1500 | E2340 | 4.2 | 0 | 0 | -- | 35 | -- | 6.5 | -- | 12 |
| DEC. | | | | | | | | | | | |
| 03... | 1145 | E4170 | 4.0 | 200 | 20 | -- | 31 | -- | 5.5 | -- | 7.0 |
| JAN. | | | | | | | | | | | |
| 08... | 1000 | E6270 | 4.4 | 430 | 40 | -- | 30 | -- | 5.5 | -- | 8.5 |
| 22... | 1400 | E6090 | 4.3 | 290 | 50 | -- | 28 | -- | 5.0 | -- | 8.9 |
| FEB. | | | | | | | | | | | |
| 04... | 1130 | E7720 | 4.1 | 680 | 40 | -- | 29 | -- | 5.1 | -- | 6.0 |
| 19... | 1345 | E4560 | 4.5 | 460 | 50 | -- | 30 | -- | 5.1 | -- | 8.5 |
| MAR. | | | | | | | | | | | |
| 04... | 1045 | E8660 | 4.1 | 360 | 140 | -- | 28 | -- | 4.7 | -- | 7.0 |
| 18... | 1530 | E12700 | 4.4 | 1400 | 70 | -- | 27 | -- | 4.5 | -- | 6.0 |
| APR. | | | | | | | | | | | |
| 02... | 1230 | E9330 | 4.0 | 390 | 80 | -- | 30 | -- | 5.3 | -- | 10 |
| 08... | 1030 | E18000 | 3.8 | 1600 | 80 | -- | 21 | -- | 3.6 | -- | 4.3 |
| 22... | 0940 | E9280 | 3.8 | 1000 | 110 | -- | 23 | -- | 3.7 | -- | 5.0 |
| MAY | | | | | | | | | | | |
| 07... | 0945 | E5340 | 3.3 | 1000 | 100 | 27 | -- | 4.7 | -- | 6.9 | -- |
| 20... | 1135 | E7350 | 3.5 | 1000 | 70 | 23 | -- | 3.9 | -- | 5.2 | -- |
| JUNE | | | | | | | | | | | |
| 03... | 1240 | E2470 | 1.0 | 420 | 50 | 33 | -- | 5.4 | -- | 7.0 | -- |
| 17... | 1230 | E2900 | .1 | 680 | 90 | 36 | -- | 6.5 | -- | 10 | -- |
| JULY | | | | | | | | | | | |
| 01... | 1200 | E2080 | .1 | 1300 | 80 | 32 | -- | 5.9 | -- | 12 | -- |
| 15... | 1215 | E2370 | -- | 1600 | 170 | 36 | -- | 6.0 | -- | 6.5 | -- |
| 29... | 1200 | E2310 | -- | 530 | 50 | 39 | -- | 6.6 | -- | 9.0 | -- |
| AUG. | | | | | | | | | | | |
| 12... | 1215 | E1070 | -- | 580 | 60 | 35 | -- | 6.1 | -- | 9.5 | -- |
| 27... | 1110 | E1550 | -- | 1000 | 110 | 40 | -- | 7.7 | -- | 14 | -- |
| SEP. | | | | | | | | | | | |
| 10... | 1245 | E2510 | -- | 800 | 90 | 36 | -- | 12 | -- | 8.0 | -- |
| 25... | 1140 | E4060 | -- | 620 | 70 | 37 | -- | 7.9 | -- | 8.2 | -- |

E Estimated value.

CONTINUED NEXT PAGE

## 01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | -- | 1.8 | 112 | 0 | 92 | 23 | 24 | -- | .3 | 1.2 |
| 16... | -- | 1.7 | 106 | 0 | 87 | 31 | 19 | -- | .0 | .98 |
| 30... | -- | 1.6 | 102 | 0 | 84 | 31 | 17 | -- | .3 | .99 |
| NOV. | | | | | | | | | | |
| 13... | -- | 1.7 | 103 | 0 | 84 | 35 | 14 | -- | .3 | 1.1 |
| DEC. | | | | | | | | | | |
| 03... | -- | 1.8 | 84 | 0 | 69 | 26 | 13 | -- | .3 | .91 |
| JAN. | | | | | | | | | | |
| 08... | -- | 1.2 | 92 | 0 | 75 | 25 | 12 | -- | .3 | .90 |
| 22... | -- | 2.5 | 82 | 0 | 67 | 24 | 14 | -- | .1 | .89 |
| FEB. | | | | | | | | | | |
| 04... | -- | 1.2 | 84 | 0 | 69 | 25 | 10 | -- | .1 | .95 |
| 19... | -- | 1.1 | 87 | 0 | 71 | 24 | 13 | -- | .1 | .90 |
| MAR. | | | | | | | | | | |
| 04... | -- | 1.2 | 83 | 0 | 68 | 22 | 12 | -- | .0 | .85 |
| 18... | -- | 1.3 | 77 | 0 | 63 | 22 | 13 | -- | .2 | .84 |
| APR. | | | | | | | | | | |
| 02... | -- | 1.2 | 90 | 0 | 74 | 23 | 17 | -- | .1 | .77 |
| 08... | -- | 1.2 | 67 | 0 | 55 | 15 | 6.9 | -- | .1 | 1.1 |
| 22... | -- | 1.2 | 66 | 0 | 54 | 17 | 7.4 | -- | .0 | .69 |
| MAY | | | | | | | | | | |
| 07... | 1.1 | -- | 77 | 0 | 63 | 20 | 11 | .2 | -- | .66 |
| 20... | 1.1 | -- | 70 | 0 | 57 | 16 | 7.8 | .2 | -- | .48 |
| JUNE | | | | | | | | | | |
| 03... | 1.1 | -- | 101 | 0 | 83 | 20 | 9.9 | .1 | -- | .39 |
| 17... | 1.2 | -- | 112 | 0 | 92 | 25 | 14 | .3 | -- | .43 |
| JULY | | | | | | | | | | |
| 01... | 1.6 | -- | 108 | 0 | 89 | 29 | 17 | .2 | -- | 1.1 |
| 15... | 2.0 | -- | 138 | 0 | 113 | 22 | 8.7 | -- | -- | .89 |
| 29... | 1.7 | -- | 114 | 0 | 94 | 46 | 13 | -- | -- | 3.1 |
| AUG. | | | | | | | | | | |
| 12... | 1.9 | -- | 111 | -- | 91 | 28 | 13 | -- | -- | .42 |
| 27... | 1.5 | -- | 129 | -- | 106 | 32 | 19 | -- | -- | .47 |
| SEP. | | | | | | | | | | |
| 10... | 1.8 | -- | 106 | -- | 87 | 27 | 12 | -- | -- | .50 |
| 25... | 1.5 | -- | 97 | -- | 80 | 18 | 11 | -- | -- | .46 |

| DATE | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | .00 | .00 | .32 | .32 | 1.5 | .07 | -- | .04 | 165 | 213 |
| 16... | .00 | .04 | .23 | .27 | 1.3 | .09 | -- | .04 | 161 | 134 |
| 30... | .01 | .01 | .35 | .36 | 1.4 | .08 | -- | .05 | 153 | 172 |
| NOV. | | | | | | | | | | |
| 13... | .00 | .00 | .22 | .22 | 1.3 | .07 | -- | .05 | 160 | -- |
| DEC. | | | | | | | | | | |
| 03... | .00 | .00 | .19 | .19 | 1.1 | .08 | -- | .04 | 130 | 104 |
| JAN. | | | | | | | | | | |
| 08... | .01 | .34 | .02 | .36 | 1.3 | .05 | -- | .04 | 132 | 160 |
| 22... | .02 | .33 | .25 | .58 | 1.5 | .06 | -- | .04 | 127 | 157 |
| FEB. | | | | | | | | | | |
| 04... | .02 | .26 | .12 | .38 | 1.3 | .04 | -- | .03 | 122 | 160 |
| 19... | .01 | .27 | .16 | .43 | 1.3 | .05 | -- | .04 | 129 | 147 |
| MAR. | | | | | | | | | | |
| 04... | .02 | .33 | .30 | .63 | 1.5 | .05 | -- | .03 | 120 | 136 |
| 18... | .09 | .27 | .00 | .27 | 1.2 | .08 | -- | .05 | 116 | 167 |
| APR. | | | | | | | | | | |
| 02... | .04 | .29 | .22 | .51 | 1.3 | .04 | -- | .04 | 135 | 156 |
| 08... | .01 | .16 | .41 | .57 | 1.7 | .08 | -- | .04 | 89 | 126 |
| 22... | .02 | .30 | .14 | .44 | 1.1 | .07 | -- | .03 | 94 | 132 |
| MAY | | | | | | | | | | |
| 07... | .03 | .17 | .35 | .52 | 1.2 | .08 | .03 | -- | -- | 163 |
| 20... | .07 | .16 | .29 | .45 | 1.0 | .08 | .03 | -- | -- | 129 |
| JUNE | | | | | | | | | | |
| 03... | .03 | .15 | .44 | .59 | 1.0 | .07 | .01 | -- | -- | 158 |
| 17... | .04 | .37 | .41 | .78 | 1.3 | .10 | .04 | -- | -- | 196 |
| JULY | | | | | | | | | | |
| 01... | .00 | .01 | .43 | .44 | 1.5 | .13 | .04 | -- | -- | 220 |
| 15... | .05 | .37 | .58 | .95 | 1.9 | .13 | .04 | -- | -- | 210 |
| 29... | .05 | .31 | .17 | .48 | 3.6 | .07 | .02 | -- | -- | 199 |
| AUG. | | | | | | | | | | |
| 12... | .04 | .34 | .50 | .84 | 1.3 | .09 | .02 | -- | -- | 274 |
| 27... | .04 | .77 | .63 | 1.4 | 1.9 | .10 | .05 | -- | -- | 258 |
| SEP. | | | | | | | | | | |
| 10... | .04 | .25 | .61 | .86 | 1.4 | .10 | .02 | -- | -- | 201 |
| 25... | .04 | .48 | .19 | .67 | 1.2 | .09 | .02 | -- | -- | 175 |

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | 154 | 11 | 0 | 120 | 28 | 339 | 7.3 | -- | -- | 11 |
| 16... | 86 | 25 | 12 | 110 | 24 | 307 | 7.3 | -- | -- | 11 |
| 30... | 147 | 14 | 8 | 110 | 22 | 293 | 7.3 | -- | -- | 11 |
| NOV. | | | | | | | | | | |
| 13... | -- | 10 | 5 | 110 | 30 | 285 | 7.6 | -- | -- | 9 |
| DEC. | | | | | | | | | | |
| 03... | 100 | 10 | 8 | 100 | 31 | 227 | 7.2 | -- | -- | 11 |
| JAN. | | | | | | | | | | |
| 08... | 135 | 14 | 11 | 98 | 22 | 243 | 7.5 | -- | -- | 7 |
| 22... | 103 | 2 | 1 | 91 | 23 | 230 | 7.4 | -- | -- | 9 |
| FEB. | | | | | | | | | | |
| 04... | 120 | 19 | 16 | 93 | 25 | 222 | 7.5 | -- | -- | 9 |
| 19... | 121 | 10 | 9 | 96 | 25 | 247 | 7.4 | -- | -- | 8 |
| MAR. | | | | | | | | | | |
| 04... | 119 | 19 | 14 | 89 | 21 | 229 | 7.5 | -- | -- | 8 |
| 18... | 148 | 35 | 22 | 86 | 23 | 213 | 7.6 | -- | -- | 10 |
| APR. | | | | | | | | | | |
| 02... | 125 | 9 | 8 | 97 | 23 | 251 | 7.5 | -- | -- | 8 |
| 08... | 103 | 24 | 23 | 67 | 12 | 165 | 7.5 | -- | -- | 12 |
| 22... | 109 | 24 | 22 | 73 | 19 | 173 | 7.5 | -- | -- | 11 |
| MAY | | | | | | | | | | |
| 07... | 115 | 30 | 24 | -- | -- | 206 | 7.6 | -- | -- | 11 |
| 20... | 99 | 39 | 28 | -- | -- | 185 | 7.7 | -- | -- | 12 |
| JUNE | | | | | | | | | | |
| 03... | 114 | 9 | 7 | -- | -- | 247 | 8.4 | -- | -- | 12 |
| 17... | 185 | 15 | 13 | -- | -- | 280 | 7.6 | -- | -- | 11 |
| JULY | | | | | | | | | | |
| 01... | 177 | 27 | 23 | -- | -- | 294 | 7.2 | -- | -- | 13 |
| 15... | 180 | 47 | 40 | -- | -- | 264 | 7.1 | 7 | 30 | 17 |
| 29... | 171 | 20 | 16 | -- | -- | 261 | 7.8 | 4 | 8 | 16 |
| AUG. | | | | | | | | | | |
| 12... | 174 | 22 | 18 | -- | -- | 345 | -- | 4 | 10 | 20 |
| 27... | 198 | 38 | 30 | -- | -- | 344 | -- | 3 | 20 | 19 |
| SEP. | | | | | | | | | | |
| 10... | 165 | 17 | 16 | -- | -- | 277 | -- | 4 | 10 | 19 |
| 25... | 152 | 30 | 17 | -- | -- | 248 | -- | 10 | 20 | 20 |

| DATE | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | CHLOROPHYLL A (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 02... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 16... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 30... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 13... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 03... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 08... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 22... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 04... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 19... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 04... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 02... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08... | -- | .0 | -- | 1 | 0 | 0 | 20 | 1 | <.5 | 30 |
| 22... | -- | .0 | -- | 1 | -- | -- | 20 | 5 | <.5 | -- |
| MAY | | | | | | | | | | |
| 07... | -- | .0 | -- | 1 | 0 | 10 | 10 | 5 | <.5 | 20 |
| 20... | -- | .0 | -- | 2 | 0 | 10 | 10 | 3 | <.5 | 60 |
| JUNE | | | | | | | | | | |
| 03... | -- | .0 | -- | 1 | 0 | <10 | 10 | 5 | <.5 | 80 |
| 17... | -- | .0 | -- | 1 | 0 | 20 | 10 | 3 | <.5 | 260 |
| JULY | | | | | | | | | | |
| 01... | -- | .0 | -- | 2 | 0 | 10 | 20 | 7 | <.5 | 150 |
| 15... | 5.8 | -- | 7.7 | 3 | 0 | 10 | 20 | 7 | <.5 | 30 |
| 29... | 5.5 | -- | -- | 2 | 0 | <10 | 20 | 5 | <.5 | 460 |
| AUG. | | | | | | | | | | |
| 12... | 6.8 | -- | -- | 2 | 0 | <10 | 20 | 1 | <.5 | 20 |
| 27... | 4.5 | -- | -- | 0 | 3 | <10 | 30 | 21 | <.5 | 80 |
| SEP. | | | | | | | | | | |
| 10... | 6.7 | -- | -- | 1 | 1 | 10 | 10 | 7 | <.5 | 270 |
| 25... | 7.7 | -- | -- | 1 | 0 | 0 | 10 | 4 | <.5 | 0 |

## 01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.
(International Hydrological Decade River Station)
(Radiochemical Network)

LOCATION.--Lat 42°44'07", long 73°41'25", Albany-Rensselaer County line, right channel at bridge on road between Green Island and Troy, at Starbuck Island, 0.5 mi (0.8 km) upstream from bridge on State Highway 7, and 1.2 mi (1.9 km) downstream from gaging station at Troy lock and dam.

DRAINAGE AREA.--8,090 mi² (20,953 km²), approximately, at gaging station (including that above site of former auxiliary gage).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1974.
Water temperatures: October 1954 to September 1974.

EXTREMES.--1973-74:
**Water temperatures: Maximum, 25.5°C Aug. 14, 17, 22-25; minimum, freezing point on many days during winter period.**

Period of record:
Water temperatures: Maximum, 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature measurements made at Troy lock and dam, lat 42°45'08", long 73°41'22". Prior to October 1968 sampling site at bridge on State Highway 7. Stream frozen or no water temperature record Dec. 17 to April 15.

COOPERATION.--Water temperature record furnished by the Corps of Engineers.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>25... | 0930 | E5900 | 2.6 | 240 | 10 | -- | 23 | -- | 4.4 | -- | 11 | -- |
| NOV.<br>14... | 1030 | E5310 | 4.1 | 260 | 20 | -- | 22 | -- | 4.6 | -- | 9.0 | -- |
| DEC.<br>18... | 1330 | E11100 | 4.2 | 530 | 40 | -- | 23 | -- | 4.6 | -- | 6.5 | -- |
| JAN.<br>24... | 0940 | E25900 | 4.7 | 570 | 100 | -- | 17 | -- | 3.6 | -- | 8.3 | -- |
| FEB.<br>20... | 1710 | E13900 | 5.0 | 440 | 40 | -- | 11 | -- | 2.7 | -- | 4.2 | -- |
| MAR.<br>22... | 1000 | E19300 | 4.8 | 660 | 70 | -- | 18 | -- | 4.0 | -- | 6.1 | -- |
| APR.<br>25... | 1545 | E28900 | 3.7 | 890 | 90 | 18 | -- | 3.7 | -- | 4.5 | -- | 1.0 |
| MAY<br>24... | 1345 | E17200 | 4.7 | 370 | 50 | 21 | -- | 3.0 | -- | 3.7 | -- | .7 |
| JUNE<br>20... | 1320 | E9600 | 3.0 | 420 | 60 | 18 | -- | 4.4 | -- | 6.0 | -- | .7 |
| JULY<br>17... | 1500 | E7880 | -- | 460 | 90 | 22 | -- | 4.0 | -- | 5.6 | -- | 1.1 |
| AUG.<br>08... | 1200 | E6770 | -- | 360 | 80 | 19 | -- | 3.8 | -- | 4.5 | -- | .9 |
| SEP.<br>05... | 0830 | E15700 | -- | 760 | 50 | 25 | -- | 5.4 | -- | 7.9 | -- | 1.0 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>25... | 1.4 | 62 | 0 | 51 | 24 | 13 | -- | .4 | .57 | .16 | .11 | .48 |
| NOV.<br>14... | 1.2 | 63 | 0 | 52 | 24 | 11 | -- | .3 | .88 | .00 | .00 | .38 |
| DEC.<br>18... | 1.2 | 63 | 0 | 52 | 20 | 11 | -- | .4 | .68 | .03 | .14 | .05 |
| JAN.<br>24... | .8 | 42 | 0 | 34 | 17 | 12 | -- | .1 | .69 | .04 | .17 | .25 |
| FEB.<br>20... | .7 | 33 | 0 | 27 | 14 | 5.8 | -- | .1 | .62 | .00 | .18 | .23 |
| MAR.<br>22... | 1.0 | 50 | 0 | 41 | 18 | 9.4 | -- | .0 | .74 | .00 | .34 | .24 |
| APR.<br>25... | -- | 59 | 0 | 48 | 15 | 7.0 | .3 | -- | .66 | .01 | .16 | .35 |
| MAY<br>24... | -- | 35 | 0 | 29 | 13 | 4.9 | .1 | -- | .46 | .02 | .26 | .30 |
| JUNE<br>20... | -- | 54 | 0 | 44 | 17 | 10 | .3 | -- | .47 | .02 | .16 | .33 |
| JULY<br>17... | -- | 64 | 0 | 53 | 19 | 7.7 | -- | -- | .46 | .03 | .30 | .30 |
| AUG.<br>08... | -- | 44 | 0 | 36 | 16 | 9.3 | -- | -- | .32 | .02 | .31 | .22 |
| SEP.<br>05... | -- | 78 | 0 | 64 | 20 | 11 | -- | -- | .57 | .04 | .37 | .25 |

E Estimated value.

## 01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.—Continued
(International Hydrological Decade River Station)

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | .59 | 1.3 | .06 | -- | .03 | 110 | -- | -- | 0 | 0 | 73 | 22 |
| NOV. 14... | .38 | 1.3 | .05 | -- | .02 | 107 | 134 | 102 | 8 | 2 | 80 | 28 |
| DEC. 18... | .19 | .90 | .06 | -- | .02 | 102 | 125 | 98 | 16 | 12 | 73 | 21 |
| JAN. 24... | .42 | 1.1 | .04 | -- | .02 | 84 | 95 | 85 | 9 | 4 | 56 | 22 |
| FEB. 20... | .41 | 1.0 | .03 | -- | .02 | 60 | 75 | 69 | 6 | 4 | 36 | 9 |
| MAR. 22... | .58 | 1.3 | .04 | -- | .01 | 86 | 128 | 92 | 15 | 13 | 57 | 26 |
| APR. 25... | .51 | 1.2 | .07 | .02 | -- | -- | 129 | 97 | 32 | 25 | -- | -- |
| MAY 24... | .56 | 1.0 | .03 | .01 | -- | -- | 121 | 96 | 10 | 9 | -- | -- |
| JUNE 20... | .49 | .98 | .04 | .00 | -- | -- | 119 | 84 | 8 | 7 | -- | -- |
| JULY 17... | .60 | 1.1 | .05 | .01 | -- | -- | 131 | 96 | 11 | 10 | -- | -- |
| AUG. 08... | .53 | .97 | .06 | .06 | -- | -- | 108 | 69 | 7 | 5 | -- | -- |
| SEP. 05... | .62 | 1.2 | .07 | .02 | -- | -- | 165 | 118 | 27 | 9 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | 230 | 7.5 | 11.0 | -- | -- | 10.4 | 95 | 14 | 79100 | 13500 | -- | .0 |
| NOV. 14... | 225 | 7.1 | -- | -- | -- | 13.1 | 109 | 14 | 37000 | 4000 | -- | .0 |
| DEC. 18... | 184 | 7.2 | -- | -- | -- | 15.0 | 106 | 14 | B1700 | -- | -- | .0 |
| JAN. 24... | 210 | 7.5 | .0 | -- | -- | 14.8 | 105 | 11 | 20000 | B2500 | -- | .0 |
| FEB. 20... | 145 | 6.8 | 5.5 | -- | -- | 14.4 | 105 | 11 | 73000 | 11000 | -- | .0 |
| MAR. 22... | 185 | 7.3 | 2.0 | -- | -- | 14.0 | 105 | 16 | B44000 | B500 | -- | .0 |
| APR. 25... | 180 | 7.1 | 11.0 | -- | -- | 8.6 | 88 | 16 | B17000 | B1200 | -- | .0 |
| MAY 24... | 131 | 7.1 | 17.0 | -- | -- | 9.0 | 93 | 17 | 30000 | 9400 | -- | .0 |
| JUNE 20... | 158 | 7.5 | 22.0 | -- | -- | 8.2 | 98 | 11 | 70000 | 1900 | -- | .0 |
| JULY 17... | 180 | 7.7 | 24.5 | 7 | 8 | 8.2 | 97 | 20 | B33000 | B500 | -- | -- |
| AUG. 08... | 144 | 7.6 | 24.5 | 10 | 5 | 8.1 | 96 | 16 | -- | -- | 4.5 | -- |
| SEP. 05... | 185 | 7.7 | 18.0 | 6 | 20 | 9.9 | 98 | 14 | -- | -- | 5.3 | -- |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | DIS-SOLVED RA-226 (RADON METHOD) (PC/L) | DIS-SOLVED URANIUM (U) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| APR. 25... | 1545 | 1.9 | 3.2 | 2.5 | 100 | 1.8 | 1.3 | 1.1 | 32 | .04 | .10 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT 0800)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18.0 | 13.0 | 5.0 | --- | --- | --- | --- | 9.0 | 15.5 | 23.0 | 23.5 | 24.0 |
| 2 | 16.5 | 11.0 | 4.0 | --- | --- | --- | --- | 9.0 | 15.5 | 23.5 | 24.0 | 23.0 |
| 3 | 16.5 | 10.0 | 4.0 | --- | --- | --- | --- | 9.0 | 16.0 | 23.5 | 24.0 | 23.0 |
| 4 | 16.5 | 10.0 | 4.0 | --- | --- | --- | --- | 10.5 | 16.0 | 23.5 | 24.0 | 21.0 |
| 5 | 16.5 | 10.0 | 4.0 | --- | --- | --- | --- | 11.0 | 16.5 | 23.5 | 24.0 | 19.5 |
| 6 | 16.5 | 8.0 | 4.0 | --- | --- | --- | --- | 11.0 | 16.5 | 23.5 | 24.0 | 19.0 |
| 7 | 16.0 | 7.0 | 4.0 | --- | --- | --- | --- | 10.5 | 18.0 | 23.5 | 24.0 | 19.0 |
| 8 | 16.0 | 7.0 | 4.0 | --- | --- | --- | --- | 10.0 | 18.0 | 21.5 | 24.0 | 18.5 |
| 9 | 15.5 | 7.0 | 3.0 | --- | --- | --- | --- | 10.0 | 18.0 | 23.0 | 24.5 | 18.5 |
| 10 | 15.5 | 7.0 | 3.0 | --- | --- | --- | --- | 10.0 | 21.0 | 23.0 | 25.0 | 19.5 |
| 11 | 15.5 | 6.0 | 1.0 | --- | --- | --- | --- | 10.0 | 21.0 | 23.0 | 25.0 | 19.5 |
| 12 | 15.5 | 6.0 | 0.5 | --- | --- | --- | --- | 10.0 | 21.0 | 23.0 | 25.0 | 19.5 |
| 13 | 15.5 | 6.0 | 0.0 | --- | --- | --- | --- | 10.0 | 23.0 | 23.5 | 25.0 | 19.5 |
| 14 | 15.5 | 6.0 | 0.0 | --- | --- | --- | --- | 10.0 | 23.5 | 24.0 | 25.5 | 21.5 |
| 15 | 15.5 | 7.0 | 0.0 | --- | --- | --- | --- | 10.5 | 21.5 | 24.0 | 25.0 | 20.5 |
| 16 | 15.0 | 7.0 | 0.0 | --- | --- | --- | 5.5 | 10.5 | 21.5 | 24.0 | 25.0 | 20.5 |
| 17 | 15.0 | 5.0 | --- | --- | --- | --- | 5.5 | 13.5 | 21.5 | 24.0 | 25.5 | 20.5 |
| 18 | 14.5 | 5.0 | --- | --- | --- | --- | 5.5 | 13.5 | 22.0 | 24.0 | 24.5 | 20.0 |
| 19 | 14.5 | 5.5 | --- | --- | --- | --- | 6.0 | 13.5 | 22.0 | 25.0 | 24.5 | 20.5 |
| 20 | 14.5 | 5.0 | --- | --- | --- | --- | 6.0 | 13.5 | 22.0 | 25.0 | 24.5 | 20.5 |
| 21 | 14.5 | 4.5 | --- | --- | --- | --- | 6.0 | 14.5 | 23.0 | 25.0 | 24.5 | 20.0 |
| 22 | 14.0 | 5.0 | --- | --- | --- | --- | 6.5 | 14.5 | 23.0 | 25.0 | 25.5 | 19.5 |
| 23 | 14.0 | 5.0 | --- | --- | --- | --- | 6.5 | 14.5 | 23.0 | 25.0 | 25.5 | 16.5 |
| 24 | 14.0 | 5.0 | --- | --- | --- | --- | 6.5 | 15.0 | 23.0 | 24.5 | 25.5 | 16.5 |
| 25 | 14.0 | 5.5 | --- | --- | --- | --- | 6.5 | 15.5 | 23.0 | 23.0 | 25.5 | 15.5 |
| 26 | 13.5 | 5.0 | --- | --- | --- | --- | 8.0 | 15.5 | 23.0 | 23.5 | 24.5 | 15.5 |
| 27 | 13.0 | 5.0 | --- | --- | --- | --- | 8.0 | 14.5 | 21.5 | 23.5 | 25.0 | 15.0 |
| 28 | 13.0 | 5.5 | --- | --- | --- | --- | 7.0 | 14.5 | 22.0 | 23.5 | 25.0 | 15.5 |
| 29 | 13.0 | 5.5 | --- | --- | --- | --- | 8.0 | 14.5 | 23.0 | 23.5 | 24.5 | 16.0 |
| 30 | 13.0 | 5.5 | --- | --- | --- | --- | 9.0 | 15.0 | 23.0 | 23.5 | 24.0 | 15.5 |
| 31 | 13.0 | --- | --- | --- | --- | --- | --- | 15.0 | --- | 23.5 | 24.0 | --- |
| AVERAGE | 15.0 | 6.5 | --- | --- | --- | --- | --- | 12.0 | 20.5 | 23.5 | 24.5 | 19.0 |

## 01359560 HUDSON RIVER AT GLENMONT, N.Y.

LOCATION.--Lat 42°35'43", long 73°45'43", Albany County, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mi (0.3 km) downstream from lower mouth of Normans Kill and 0.9 mi (1.4 km) southeast of Glenmont.

DRAINAGE AREA.--8,476 mi² (21,953 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 1330 | 3.2 | 450 | 70 | -- | 20 | -- | 4.6 | -- | 13 |
| 23... | 0935 | 2.9 | 380 | 90 | -- | 23 | -- | 5.0 | -- | 11 |
| NOV. | | | | | | | | | | |
| 07... | 1355 | 3.1 | 620 | 80 | -- | 23 | -- | 5.1 | -- | 11 |
| 27... | 1000 | 4.5 | 640 | 60 | -- | 26 | -- | 4.7 | -- | 8.2 |
| DEC. | | | | | | | | | | |
| 11... | 1130 | 3.9 | 1200 | 120 | -- | 25 | -- | 4.5 | -- | 7.2 |
| JAN. | | | | | | | | | | |
| 02... | 1100 | 4.4 | 670 | 30 | -- | 18 | -- | 3.7 | -- | 4.5 |
| 15... | 1425 | 4.6 | 380 | 50 | -- | 20 | -- | 4.0 | -- | 7.0 |
| 28... | 1045 | 4.3 | 2200 | 100 | -- | 25 | -- | 4.6 | -- | 11 |
| FEB. | | | | | | | | | | |
| 13... | 1610 | 4.8 | 310 | 60 | -- | 19 | -- | 3.6 | -- | 6.0 |
| 25... | 1115 | 3.6 | 1800 | 160 | -- | 21 | -- | 3.8 | -- | 7.4 |
| MAR. | | | | | | | | | | |
| 11... | 1600 | 4.2 | 660 | 40 | -- | 19 | -- | 3.5 | -- | 4.8 |
| 25... | 1045 | 4.4 | 780 | 60 | -- | 24 | -- | 5.4 | -- | 9.5 |
| APR. | | | | | | | | | | |
| 08... | 1215 | 4.1 | 1400 | 70 | -- | 18 | -- | 3.4 | -- | 5.0 |
| 22... | 1130 | 4.2 | 670 | 80 | -- | 21 | -- | 3.8 | -- | 6.6 |
| MAY | | | | | | | | | | |
| 07... | 1130 | 3.7 | 440 | 70 | 19 | -- | 4.4 | -- | 7.0 | -- |
| 20... | 1025 | 4.2 | 530 | 50 | 20 | -- | 3.6 | -- | 5.7 | -- |
| JUNE | | | | | | | | | | |
| 03... | 1115 | 3.9 | 1100 | 120 | 25 | -- | 5.0 | -- | 9.4 | -- |
| 17... | 1055 | 2.8 | 470 | 150 | 22 | -- | 4.4 | -- | 8.2 | -- |
| JULY | | | | | | | | | | |
| 01... | 1030 | 3.0 | 360 | 490 | 23 | -- | 4.1 | -- | 8.5 | -- |
| 15... | 1030 | -- | 490 | 130 | 24 | -- | 4.0 | -- | 6.0 | -- |
| 29... | 1030 | -- | 410 | 280 | 22 | -- | 4.6 | -- | 7.6 | -- |
| AUG. | | | | | | | | | | |
| 12... | 1100 | -- | 290 | 50 | 20 | -- | 2.3 | -- | 7.7 | -- |
| 27... | 1000 | -- | 270 | 140 | 23 | -- | 4.2 | -- | 8.6 | -- |
| SEP. | | | | | | | | | | |
| 10... | 1030 | -- | 550 | 80 | 25 | -- | 8.4 | -- | 7.5 | -- |
| 25... | 1000 | -- | 340 | 60 | 23 | -- | 8.0 | -- | 7.0 | -- |

CONTINUED NEXT PAGE

## 01359560 HUDSON RIVER AT GLENMONT, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL PO- TAS- SIUM (K) (MG/L) | DIS- SOLVED PO- TAS- SIUM (K) (MG/L) | BICAR- BONATE (HCO3) (MG/L) | CAR- BONATE (CO3) (MG/L) | ALKA- LINITY AS CACO3 (MG/L) | DIS- SOLVED SULFATE (SO4) (MG/L) | DIS- SOLVED CHLO- RIDE (CL) (MG/L) | TOTAL FLUO- RIDE (F) (MG/L) | DIS- SOLVED FLUO- RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | 1.4 | 58 | 0 | 48 | 24 | 15 | -- | .4 | 1.2 |
| 23... | -- | 1.4 | 66 | 0 | 54 | 28 | 16 | -- | .3 | .95 |
| NOV. | | | | | | | | | | |
| 07... | -- | 1.5 | 70 | 0 | 57 | 24 | 14 | -- | .2 | 1.2 |
| 27... | -- | 1.7 | 63 | 0 | 52 | 26 | 11 | -- | .3 | 1.1 |
| DEC. | | | | | | | | | | |
| 11... | -- | 1.7 | 63 | 0 | 52 | 23 | 10 | -- | .3 | .88 |
| JAN. | | | | | | | | | | |
| 02... | -- | 1.1 | 50 | 0 | 41 | 16 | 8.1 | -- | .3 | .72 |
| 15... | -- | .9 | 55 | 0 | 45 | 19 | 9.8 | -- | .3 | .69 |
| 28... | -- | 1.4 | 64 | 0 | 52 | 31 | 10 | -- | .0 | .90 |
| FEB. | | | | | | | | | | |
| 13... | -- | 1.0 | 53 | 0 | 43 | 20 | 10 | -- | .2 | .70 |
| 25... | -- | 1.2 | 57 | 0 | 47 | 22 | 13 | -- | .2 | .72 |
| MAR. | | | | | | | | | | |
| 11... | -- | 1.2 | 54 | 0 | 44 | 16 | 7.9 | -- | .1 | .66 |
| 25... | -- | 1.3 | 65 | 0 | 53 | 23 | 16 | -- | .1 | .70 |
| APR. | | | | | | | | | | |
| 08... | -- | 1.4 | 50 | 0 | 41 | 16 | 8.8 | -- | .1 | .75 |
| 22... | -- | 1.3 | 54 | 0 | 44 | 19 | 10 | -- | .0 | .58 |
| MAY | | | | | | | | | | |
| 07... | .9 | -- | 57 | 0 | 47 | 17 | 10 | .2 | -- | .57 |
| 20... | 1.0 | -- | 52 | 0 | 43 | 16 | 9.3 | .1 | -- | .42 |
| JUNE | | | | | | | | | | |
| 03... | 1.2 | -- | 74 | 0 | 61 | 26 | 15 | .1 | -- | .51 |
| 17... | 1.0 | -- | 64 | 0 | 53 | 21 | 12 | .3 | -- | .53 |
| JULY | | | | | | | | | | |
| 01... | 1.2 | -- | 62 | 0 | 51 | 26 | 12 | .2 | -- | .61 |
| 15... | 1.4 | -- | 61 | 0 | 50 | 19 | 9.6 | -- | -- | .48 |
| 29... | 1.7 | -- | 63 | 0 | 52 | 22 | 11 | -- | -- | .47 |
| AUG. | | | | | | | | | | |
| 12... | 1.5 | -- | 59 | -- | 48 | 20 | 13 | -- | -- | .36 |
| 27... | .6 | -- | 58 | -- | 48 | 14 | 15 | -- | -- | .49 |
| SEP. | | | | | | | | | | |
| 10... | 1.0 | -- | 65 | -- | 53 | 20 | 11 | -- | -- | .54 |
| 25... | 1.6 | -- | 74 | -- | 61 | 15 | 9.8 | -- | -- | .77 |

| DATE | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL RESI- DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | .00 | .08 | .20 | .28 | 1.5 | .14 | -- | .04 | 110 | -- |
| 23... | .00 | .08 | .36 | .44 | 1.4 | .06 | -- | .04 | 120 | 149 |
| NOV. | | | | | | | | | | |
| 07... | .01 | .12 | .12 | .24 | 1.4 | .10 | -- | .04 | 117 | 158 |
| 27... | .00 | .13 | .09 | .22 | 1.3 | .08 | -- | .04 | 114 | 143 |
| DEC. | | | | | | | | | | |
| 11... | .00 | .03 | .22 | .25 | 1.1 | .07 | -- | .03 | 107 | 161 |
| JAN. | | | | | | | | | | |
| 02... | .12 | .07 | .12 | .19 | 1.0 | .16 | -- | .13 | 81 | 124 |
| 15... | .19 | .13 | .50 | .63 | 1.5 | .05 | -- | .02 | 92 | 116 |
| 28... | .09 | .16 | .43 | .59 | 1.6 | .15 | -- | .06 | 127 | 179 |
| FEB. | | | | | | | | | | |
| 13... | .01 | .27 | .38 | .65 | 1.4 | .04 | -- | .02 | 91 | 108 |
| 25... | .07 | .42 | .39 | .81 | 1.6 | .10 | -- | .04 | 100 | 122 |
| MAR. | | | | | | | | | | |
| 11... | .02 | .33 | .20 | .53 | 1.2 | .05 | -- | .03 | 83 | 130 |
| 25... | .03 | .28 | .17 | .45 | 1.2 | .06 | -- | .04 | 116 | 151 |
| APR. | | | | | | | | | | |
| 08... | .02 | .09 | .33 | .42 | 1.2 | .07 | -- | .03 | 82 | 137 |
| 22... | .01 | .28 | .19 | .47 | 1.1 | .05 | -- | .02 | 93 | 127 |
| MAY | | | | | | | | | | |
| 07... | .02 | .17 | .33 | .50 | 1.1 | .06 | .03 | -- | -- | 128 |
| 20... | .05 | .15 | .33 | .48 | .95 | .05 | .02 | -- | -- | 105 |
| JUNE | | | | | | | | | | |
| 03... | .04 | .25 | .69 | .94 | 1.5 | .08 | .02 | -- | -- | 159 |
| 17... | .03 | .39 | .42 | .81 | 1.4 | .08 | .04 | -- | -- | 141 |
| JULY | | | | | | | | | | |
| 01... | .22 | .41 | .41 | .82 | 1.7 | .07 | .03 | -- | -- | 151 |
| 15... | .05 | .47 | .43 | .90 | 1.4 | .13 | .07 | -- | -- | 132 |
| 29... | .04 | .50 | .80 | 1.3 | 1.8 | .07 | .02 | -- | -- | 141 |
| AUG. | | | | | | | | | | |
| 12... | .02 | .45 | .29 | .74 | 1.1 | .07 | .06 | -- | -- | 228 |
| 27... | .03 | .76 | .34 | 1.1 | 1.6 | .10 | .04 | -- | -- | 138 |
| SEP. | | | | | | | | | | |
| 10... | .08 | .43 | .37 | .80 | 1.4 | .06 | .03 | -- | -- | 124 |
| 25... | .03 | .48 | .28 | .76 | 1.6 | .07 | .03 | -- | -- | 134 |

01359560 HUDSON RIVER AT CLERMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | 10 | 2 | 69 | 21 | 207 | 6.9 | -- | -- | 12 |
| 23... | 141 | 3 | 0 | 78 | 24 | 230 | 6.7 | -- | -- | 15 |
| NOV. | | | | | | | | | | |
| 07... | 139 | 12 | 5 | 78 | 21 | 224 | 7.1 | -- | -- | 13 |
| 27... | 106 | 17 | 14 | 84 | 33 | 207 | 7.0 | -- | -- | 18 |
| DEC. | | | | | | | | | | |
| 11... | 122 | 26 | 21 | 81 | 29 | 201 | 7.2 | -- | -- | 12 |
| JAN. | | | | | | | | | | |
| 02... | 85 | 19 | 18 | 66 | 19 | 155 | 7.3 | -- | -- | 15 |
| 15... | 90 | 9 | 7 | 66 | 21 | 173 | 7.1 | -- | -- | 12 |
| 28... | 163 | 74 | 68 | 81 | 29 | 210 | 7.4 | -- | -- | 14 |
| FEB. | | | | | | | | | | |
| 13... | 87 | 9 | 8 | 62 | 19 | 172 | 7.1 | -- | -- | 13 |
| 25... | 97 | 36 | 30 | 68 | 21 | 190 | 7.2 | -- | -- | 17 |
| MAR. | | | | | | | | | | |
| 11... | 104 | 27 | 22 | 62 | 18 | 161 | 7.3 | -- | -- | 11 |
| 25... | 114 | 17 | 16 | 82 | 29 | 209 | 7.6 | -- | -- | 11 |
| APR. | | | | | | | | | | |
| 08... | 121 | 31 | 25 | 59 | 18 | 155 | 7.3 | -- | -- | 11 |
| 22... | 98 | 20 | 6 | 68 | 24 | 171 | 7.1 | -- | -- | 12 |
| MAY | | | | | | | | | | |
| 07... | 72 | 15 | 11 | -- | -- | 176 | 7.5 | -- | -- | 11 |
| 20... | 75 | 16 | 12 | -- | -- | 161 | 7.6 | -- | -- | 12 |
| JUNE | | | | | | | | | | |
| 03... | 117 | 16 | 12 | -- | -- | 225 | 7.3 | -- | -- | 12 |
| 17... | 108 | 10 | 8 | -- | -- | 197 | 7.2 | -- | -- | 13 |
| JULY | | | | | | | | | | |
| 01... | 107 | 8 | 6 | -- | -- | 205 | 7.0 | -- | -- | 15 |
| 15... | 98 | 11 | 10 | -- | -- | 187 | 6.6 | 10 | 7 | 15 |
| 29... | 111 | 18 | 15 | -- | -- | 174 | 7.1 | 4 | 6 | 15 |
| AUG. | | | | | | | | | | |
| 12... | 168 | 9 | 8 | -- | -- | -- | -- | 3 | 3 | 16 |
| 27... | 95 | 12 | 6 | -- | -- | 207 | -- | 20 | 6 | 27 |
| SEP. | | | | | | | | | | |
| 10... | 99 | 3 | 1 | -- | -- | 200 | -- | 5 | 5 | 15 |
| 25... | 115 | 16 | 5 | -- | -- | 199 | -- | 7 | 6 | 20 |

| DATE | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | CHLORO-PHYLL A (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 23... | -- | .0 | -- | <1 | -- | -- | 20 | 8 | 3.9 | -- |
| NOV. | | | | | | | | | | |
| 07... | -- | .0 | -- | 0 | -- | -- | 30 | 7 | 5.0 | -- |
| 27... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 02... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 28... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 13... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 11... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 25... | -- | .0 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 08... | -- | .0 | -- | 1 | 0 | 20 | 0 | 0 | <.5 | 30 |
| 22... | -- | .0 | -- | 1 | -- | -- | 10 | 3 | <.5 | -- |
| MAY | | | | | | | | | | |
| 07... | -- | .0 | -- | 0 | 0 | <10 | 10 | 5 | <.5 | 70 |
| 20... | -- | .0 | -- | 1 | 6 | 10 | 0 | 5 | <.5 | 30 |
| JUNE | | | | | | | | | | |
| 03... | -- | .0 | -- | <1 | 0 | 10 | 10 | 10 | <.5 | 20 |
| 17... | -- | .0 | -- | 1 | 0 | 0 | 10 | 12 | <.5 | 50 |
| JULY | | | | | | | | | | |
| 01... | -- | .0 | -- | 2 | 6 | 10 | 10 | 15 | <.5 | 440 |
| 15... | 4.9 | -- | 2.7 | 2 | 0 | 10 | 20 | 10 | <.5 | 90 |
| 29... | 7.8 | -- | -- | 1 | 1 | 10 | 20 | 10 | <.5 | 30 |
| AUG. | | | | | | | | | | |
| 12... | 5.9 | -- | -- | 0 | 0 | 0 | 10 | 2 | <.5 | 200 |
| 27... | 5.2 | -- | -- | 0 | 3 | <10 | 8 | 2 | <.5 | 190 |
| SEP. | | | | | | | | | | |
| 10... | 5.9 | -- | -- | 1 | 1 | 10 | 10 | 7 | .5 | 40 |
| 25... | 5.0 | -- | -- | <1 | 1 | 10 | 10 | 8 | <.5 | 20 |

## 01359803 HUDSON RIVER AT COEYMANS, N.Y.

LOCATION.--Lat 42°28'37", long 73°47'20", Albany County, at dock at Powell and Minnock Brick Works, 0.4 mi (0.6 km) upstream from Coeymans Creek, and 0.4 mi (0.6 km) northeast of Coeymans.

DRAINAGE AREA.--8,595 mi² (22,261 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 10... | 1300 | 3.0 | 370 | 240 | -- | 23 | -- | 5.1 | -- | 14 | -- | 1.5 |
| NOV. | | | | | | | | | | | | |
| 07... | 1340 | 2.4 | 430 | 70 | -- | 23 | -- | 5.3 | -- | 12 | -- | 1.5 |
| DEC. | | | | | | | | | | | | |
| 11... | 1225 | 4.0 | 1100 | 80 | -- | 23 | -- | 4.4 | -- | 6.5 | -- | 1.5 |
| JAN. | | | | | | | | | | | | |
| 15... | 1345 | 4.5 | 380 | 60 | -- | 20 | -- | 4.0 | -- | 7.4 | -- | .9 |
| FEB. | | | | | | | | | | | | |
| 13... | 1530 | 4.8 | 360 | 60 | -- | 20 | -- | 3.8 | -- | 6.2 | -- | 1.0 |
| MAR. | | | | | | | | | | | | |
| 11... | 1530 | 4.1 | 650 | 40 | -- | 18 | -- | 3.4 | -- | 5.5 | -- | 1.1 |
| APR. | | | | | | | | | | | | |
| 22... | 1430 | 4.1 | -- | 90 | -- | 21 | -- | 3.7 | -- | 6.0 | -- | 1.2 |
| MAY | | | | | | | | | | | | |
| 21... | 1400 | 4.3 | 530 | 50 | 16 | -- | 3.4 | -- | 5.0 | -- | .9 | -- |
| JUNE | | | | | | | | | | | | |
| 17... | 1400 | 2.5 | 200 | 80 | 22 | -- | 4.4 | -- | 8.5 | -- | 1.3 | -- |
| JULY | | | | | | | | | | | | |
| 15... | 1445 | -- | 480 | 90 | 20 | -- | 3.7 | -- | 6.0 | -- | 1.1 | -- |
| AUG. | | | | | | | | | | | | |
| 12... | 1415 | -- | 150 | 70 | 25 | -- | 5.1 | -- | 7.5 | -- | 1.5 | -- |
| SEP. | | | | | | | | | | | | |
| 09... | 1400 | -- | 200 | 60 | 23 | -- | 4.9 | -- | 7.8 | -- | 1.0 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 10... | 67 | 0 | 55 | 25 | 17 | -- | .4 | 1.3 | .00 | .05 | .31 | .36 |
| NOV. | | | | | | | | | | | | |
| 07... | 73 | 0 | 60 | 25 | 14 | -- | .3 | 1.1 | .00 | .00 | .39 | .39 |
| DEC. | | | | | | | | | | | | |
| 11... | 60 | 0 | 49 | 23 | 8.8 | -- | .4 | .89 | .00 | .05 | .31 | .36 |
| JAN. | | | | | | | | | | | | |
| 15... | 57 | 0 | 47 | 19 | 9.1 | -- | .1 | .69 | .17 | .13 | .80 | .93 |
| FEB. | | | | | | | | | | | | |
| 13... | 54 | 0 | 44 | 20 | 10 | -- | .2 | .74 | .01 | .26 | .37 | .63 |
| MAR. | | | | | | | | | | | | |
| 11... | 53 | 0 | 43 | 16 | 6.9 | -- | .1 | .64 | .03 | .26 | .18 | .44 |
| APR. | | | | | | | | | | | | |
| 22... | 57 | 0 | 47 | 20 | 8.7 | -- | .0 | .59 | .01 | .23 | .15 | .38 |
| MAY | | | | | | | | | | | | |
| 21... | 47 | 0 | 39 | 15 | 7.5 | .2 | -- | .43 | .03 | .20 | .25 | .45 |
| JUNE | | | | | | | | | | | | |
| 17... | 63 | 0 | 52 | 20 | 12 | .2 | -- | .43 | .03 | .29 | .51 | .80 |
| JULY | | | | | | | | | | | | |
| 15... | 58 | 0 | 48 | 18 | 10 | -- | -- | .39 | .04 | .45 | .31 | .76 |
| AUG. | | | | | | | | | | | | |
| 12... | 61 | -- | 50 | 21 | 14 | -- | -- | .39 | .04 | .47 | .18 | .65 |
| SEP. | | | | | | | | | | | | |
| 09... | 65 | -- | 53 | 21 | 12 | -- | -- | .38 | .04 | .38 | .21 | .59 |

01359803 HUDSON RIVER AT COEYMANS, N.Y.--*Continued*

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>10... | 1.7 | .13 | -- | .03 | 122 | 157 | 105 | 10 | 2 | 78 | 23 |
| NOV.<br>07... | 1.5 | .05 | -- | .04 | 120 | 174 | 149 | 13 | 6 | 79 | 19 |
| DEC.<br>11... | 1.2 | .07 | -- | .03 | 101 | 152 | 108 | 4 | 4 | 76 | 26 |
| JAN.<br>15... | 1.8 | .04 | -- | .02 | 93 | 118 | 90 | 2 | 1 | 66 | 20 |
| FEB.<br>13... | 1.4 | .04 | -- | .02 | 93 | 112 | 81 | 10 | 9 | 66 | 21 |
| MAR.<br>11... | 1.1 | .04 | -- | .02 | 81 | 110 | 91 | 25 | 21 | 59 | 15 |
| APR.<br>22... | .98 | .04 | -- | .02 | 93 | 118 | 102 | 9 | 8 | 68 | 21 |
| MAY<br>21... | .91 | .04 | .01 | -- | -- | 90 | 66 | 20 | 17 | -- | -- |
| JUNE<br>17... | 1.3 | .08 | .06 | -- | -- | 136 | 104 | 7 | 6 | -- | -- |
| JULY<br>15... | 1.2 | .08 | .05 | -- | -- | 126 | 91 | 11 | 8 | -- | -- |
| AUG.<br>12... | 1.1 | .06 | .03 | -- | -- | 139 | 96 | 18 | 15 | -- | -- |
| SEP.<br>09... | 1.0 | .07 | .04 | -- | -- | 153 | 116 | 7 | 3 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>10... | 228 | 7.1 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| NOV.<br>07... | 231 | 7.1 | -- | -- | 11 | -- | .0 | 0 | 20 | 7 | 4.5 |
| DEC.<br>11... | 186 | 7.2 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| JAN.<br>15... | 174 | 7.2 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| FEB.<br>13... | 176 | 7.2 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| MAR.<br>11... | 152 | 7.0 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| APR.<br>22... | 168 | 7.4 | -- | -- | 10 | -- | .0 | <1 | -- | -- | -- |
| MAY<br>21... | 146 | 7.5 | -- | -- | 11 | -- | .0 | 1 | 10 | 6 | <.5 |
| JUNE<br>17... | 199 | 7.2 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| JULY<br>15... | 175 | 6.8 | 20 | 8 | 14 | 4.2 | -- | -- | -- | -- | -- |
| AUG.<br>12... | 199 | -- | 4 | 3 | 14 | 4.7 | -- | 2 | 0 | 3 | <.5 |
| SEP.<br>09... | 167 | -- | 5 | 6 | 15 | 6.0 | -- | -- | -- | -- | -- |

## 01361450 HUDSON RIVER AT CATSKILL, N.Y.

LOCATION.--Lat 42°12'36", long 73°51'12", Greene County, at right bank at Greene County Highway Department dock, 600 ft (183 m) upstream from Catskill Creek, and 0.9 mi (1.4 km) downstream from Rip Van Winkle Bridge.

DRAINAGE AREA.--9,336 mi$^2$ (24,180 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 10... | 1220 | .1 | 230 | 20 | -- | 21 | -- | 4.9 | -- | 14 | -- | 1.4 |
| NOV. | | | | | | | | | | | | |
| 07... | 1230 | 2.3 | 460 | 60 | -- | 21 | -- | 4.8 | -- | 12 | -- | 1.5 |
| DEC. | | | | | | | | | | | | |
| 11... | 1315 | 3.9 | 740 | 60 | -- | 20 | -- | 4.0 | -- | 6.5 | -- | 1.5 |
| FEB. | | | | | | | | | | | | |
| 13... | 1430 | 4.8 | 390 | 50 | -- | 21 | -- | 4.0 | -- | 6.0 | -- | 1.0 |
| MAR. | | | | | | | | | | | | |
| 11... | 1430 | 3.8 | 600 | 30 | -- | 17 | -- | 3.1 | -- | 4.5 | -- | 1.0 |
| APR. | | | | | | | | | | | | |
| 22... | 1330 | 4.1 | -- | 180 | -- | 18 | -- | 3.1 | -- | 5.0 | -- | 1.0 |
| MAY | | | | | | | | | | | | |
| 21... | 1300 | 3.9 | 480 | 50 | 16 | -- | 3.0 | -- | 4.3 | -- | .8 | -- |
| JUNE | | | | | | | | | | | | |
| 17... | 1245 | .1 | 180 | 30 | 20 | -- | 4.2 | -- | 7.0 | -- | .8 | -- |
| JULY | | | | | | | | | | | | |
| 15... | 1345 | -- | 1300 | 80 | 24 | -- | 4.5 | -- | 5.1 | -- | 1.6 | -- |
| AUG. | | | | | | | | | | | | |
| 12... | 1335 | -- | 200 | 40 | 24 | -- | 4.9 | -- | 8.1 | -- | 1.5 | -- |
| SEP. | | | | | | | | | | | | |
| 09... | 1310 | -- | 290 | 50 | 26 | -- | 5.4 | -- | 10 | -- | 1.1 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 10... | 64 | 0 | 52 | 23 | 16 | -- | .4 | .95 | .00 | .02 | .27 | .29 |
| NOV. | | | | | | | | | | | | |
| 07... | 63 | 0 | 52 | 24 | 15 | -- | .3 | 1.1 | .00 | .00 | .47 | .47 |
| DEC. | | | | | | | | | | | | |
| 11... | 49 | 0 | 40 | 21 | 9.3 | -- | .3 | .79 | .00 | .00 | .21 | .21 |
| FEB. | | | | | | | | | | | | |
| 13... | 57 | 0 | 47 | 20 | 10 | -- | .2 | .76 | .01 | .24 | .40 | .64 |
| MAR. | | | | | | | | | | | | |
| 11... | 48 | 0 | 39 | 16 | 7.0 | -- | .0 | .56 | .05 | .22 | .17 | .39 |
| APR. | | | | | | | | | | | | |
| 22... | 45 | 0 | 37 | 17 | 7.7 | -- | .1 | .55 | .01 | .24 | .11 | .35 |
| MAY | | | | | | | | | | | | |
| 21... | 47 | 0 | 39 | 14 | 6.7 | .1 | -- | .42 | .03 | .13 | .25 | .38 |
| JUNE | | | | | | | | | | | | |
| 17... | 58 | 0 | 48 | 18 | 11 | .2 | -- | .46 | .02 | .11 | .45 | .56 |
| JULY | | | | | | | | | | | | |
| 15... | 77 | 0 | 63 | 21 | 7.7 | -- | -- | 3.3 | .11 | .13 | .42 | .55 |
| AUG. | | | | | | | | | | | | |
| 12... | 72 | -- | 59 | 23 | 13 | -- | -- | .52 | .04 | .20 | .00 | .12 |
| SEP. | | | | | | | | | | | | |
| 09... | 81 | -- | 66 | 23 | 20 | -- | -- | .64 | .08 | .25 | .61 | .86 |

### 01361450 HUDSON RIVER AT CATSKILL, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1.2 | .03 | -- | .02 | 112 | 146 | 110 | 10 | 1 | 73 | 20 |
| NOV. 07... | 1.6 | .05 | -- | .04 | 112 | 193 | 148 | 27 | 20 | 72 | 21 |
| DEC. 11... | 1.0 | .05 | -- | .03 | 91 | 136 | 101 | 18 | 15 | 66 | 26 |
| FEB. 13... | 1.4 | .04 | -- | .02 | 95 | 112 | 87 | 12 | 11 | 69 | 22 |
| MAR. 11... | 1.0 | .03 | -- | .02 | 76 | 105 | 92 | 28 | 24 | 55 | 16 |
| APR. 22... | .91 | .04 | -- | .02 | 78 | 107 | 98 | 9 | 7 | 58 | 21 |
| MAY 21... | .83 | .05 | .02 | -- | -- | 114 | 90 | 16 | 15 | -- | -- |
| JUNE 17... | 1.0 | .06 | .02 | -- | -- | 124 | 85 | 5 | 5 | -- | -- |
| JULY 15... | 4.0 | .12 | .06 | -- | -- | 150 | 119 | 36 | 32 | -- | -- |
| AUG. 12... | .68 | .05 | .02 | -- | -- | 158 | 122 | 10 | 7 | -- | -- |
| SEP. 09... | 1.6 | .05 | .01 | -- | -- | 166 | 128 | 10 | 7 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 215 | 7.2 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| NOV. 07... | 218 | 7.1 | -- | -- | 13 | -- | .0 | 0 | 10 | 7 | 2.8 |
| DEC. 11... | 167 | 7.2 | -- | -- | 11 | -- | .0 | -- | -- | -- | -- |
| FEB. 13... | 180 | 7.2 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| MAR. 11... | 144 | 7.3 | -- | -- | 10 | -- | .1 | -- | -- | -- | -- |
| APR. 22... | 142 | 7.2 | -- | -- | 9 | -- | .0 | 1 | -- | -- | -- |
| MAY 21... | 177 | 7.6 | -- | -- | 10 | -- | .0 | 1 | 10 | 4 | <.5 |
| JUNE 17... | 187 | 7.5 | -- | -- | 16 | -- | .0 | -- | -- | -- | -- |
| JULY 15... | 196 | 7.4 | 20 | 30 | 13 | 6.2 | -- | -- | -- | -- | -- |
| AUG. 12... | 209 | -- | 2 | 7 | 13 | 5.6 | -- | 1 | 10 | 8 | <.5 |
| SEP. 09... | 197 | -- | 5 | 5 | 17 | 9.9 | -- | -- | -- | -- | -- |

## 01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(Hydrologic bench-mark station)

**LOCATION.**--Lat 42°06'59", long 74°23'20", Ulster County, temperature recorder at gaging station at Shandaken, 0.5 mi (0.8 km) downstream from Bushnellsville Creek, and 1.3 mi (2.1 km) upstream from Shandaken Tunnel Outlet.

**DRAINAGE AREA.**--59.5 mi$^2$ (154 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: August 1963 to September 1974.
Water temperatures: July 1963 to July 1968, January 1970 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures: Maximum, 25.5°C Aug. 14; minimum, freezing point on many days during January and February.

Period of record:
Water temperatures: Maximum, 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter period.

**REMARKS.**--Water temperature record unreliable Aug. 26 to Sept. 25 and Sept. 27-30. Clock stopped Feb. 4-14, range 0.5°C to 1.0°C and July 9-11, range 17.0°C to 19.0°C.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 18... | 1015 | 9.5 | 2.3 | 30 | 10 | 7.0 | 1.7 | 2.6 | 68 |
| NOV. | | | | | | | | | |
| 13... | 1040 | 31 | 2.0 | -- | -- | 4.7 | 1.3 | 1.8 | 51 |
| DEC. | | | | | | | | | |
| 12... | 1350 | 305 | 2.5 | 1900 | 80 | 4.2 | 1.3 | 1.0 | 44 |
| JAN. | | | | | | | | | |
| 16... | 1115 | 5.5 | 2.8 | 200 | 10 | 4.6 | 1.2 | 1.4 | 49 |
| FEB. | | | | | | | | | |
| 13... | 1130 | 92 | 2.2 | 80 | 10 | 4.3 | 1.2 | 1.5 | 46 |
| MAR. | | | | | | | | | |
| 26... | 1120 | 195 | 2.3 | 60 | 10 | 4.3 | 1.2 | 1.5 | 60 |
| APR. | | | | | | | | | |
| 19... | 1430 | 310 | 2.1 | -- | -- | 5.0 | 1.0 | 1.3 | 41 |
| MAY | | | | | | | | | |
| 15... | 1500 | 424 | 2.5 | 90 | 0 | 4.1 | 1.0 | 1.5 | 46 |
| JUNE | | | | | | | | | |
| 19... | 0800 | 62 | 2.8 | -- | -- | 5.6 | 1.2 | 2.5 | 53 |
| JULY | | | | | | | | | |
| 23... | 0930 | 30 | 3.1 | -- | -- | 6.0 | 1.4 | 2.5 | 61 |
| AUG. | | | | | | | | | |
| 15... | 1535 | 17 | 2.8 | -- | -- | 6.1 | 1.5 | 2.9 | 63 |
| SEP. | | | | | | | | | |
| 26... | 1400 | 55 | 2.8 | -- | -- | 5.5 | 1.3 | 2.2 | 61 |

| DATE | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | PH (UNITS) | TEMPER-ATURE (DEG C) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 18... | .01 | .00 | .00 | 60 | 35 | 24 | 7 | 7.4 | 8.0 |
| NOV. | | | | | | | | | |
| 13... | .41 | .00 | .00 | 45 | 25 | 17 | 9 | 7.0 | 5.0 |
| DEC. | | | | | | | | | |
| 12... | .52 | .00 | .01 | 31 | 22 | 16 | 10 | 6.7 | 4.0 |
| JAN. | | | | | | | | | |
| 16... | .33 | .01 | .01 | 30 | 25 | 16 | 10 | 6.8 | 1.0 |
| FEB. | | | | | | | | | |
| 13... | .27 | .00 | .01 | 31 | 23 | 16 | 10 | 6.7 | .0 |
| MAR. | | | | | | | | | |
| 26... | .26 | .01 | .01 | 27 | 24 | 16 | 10 | 7.2 | 4.5 |
| APR. | | | | | | | | | |
| 19... | -- | -- | .05 | 31 | 23 | 17 | 11 | 6.8 | 9.0 |
| MAY | | | | | | | | | |
| 15... | -- | -- | .01 | 25 | 22 | 14 | 9 | 7.0 | 15.0 |
| JUNE | | | | | | | | | |
| 19... | -- | -- | .01 | 43 | 31 | 19 | 9 | 7.2 | 12.5 |
| JULY | | | | | | | | | |
| 23... | -- | -- | .01 | 40 | 32 | 21 | 8 | 7.6 | 17.0 |
| AUG. | | | | | | | | | |
| 15... | -- | -- | .02 | 38 | 35 | 21 | 7 | 8.7 | 24.0 |
| SEP. | | | | | | | | | |
| 26... | -- | -- | .01 | 32 | 28 | 19 | 8 | 7.6 | 12.0 |

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|
| OCT. 18... | 9.8 | 82 | 136 | B4 | -- | .0 |
| NOV. 13... | 12.1 | 95 | 58 | B6 | 6 | -- |
| DEC. 12... | 11.8 | 89 | 170 | 11 | 19 | -- |
| JAN. 16... | 12.6 | 90 | B24 | 5 | 14 | -- |
| FEB. 13... | 14.5 | 88 | 25 | <1 | 2 | -- |
| MAR. 26... | 13.4 | 88 | B6 | <1 | B3 | -- |
| APR. 19... | -- | -- | B5 | <1 | <1 | -- |
| MAY 15... | 11.3 | 113 | 180 | B3 | 14 | -- |
| JUNE 19... | 10.9 | 103 | 330 | 70 | B3 | -- |
| JULY 23... | 10.7 | 110 | 1600 | 20 | B1 | -- |
| AUG. 15... | 9.2 | 110 | 1700 | B12 | 35 | -- |
| SEP. 26... | 12.2 | 107 | 480 | B4 | 25 | -- |

## PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | HEPTA-CHLOR (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1015 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | HEPTA-CHLOR EPOXIDE (UG/L) | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .00 | .00 | .00 | .00 | .00 | .0 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1015 | .0 | 0 | .0 | .6 | 1.3 | .0 | .0 | .0 | .0 | .0 | 0 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | DIS-SOLVED RA-226 (RADON METHOD) (PC/L) | DIS-SOLVED URANIUM (U) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | 1015 | <.5 | 1.1 | .9 | 36 | <.4 | <.4 | <.4 | <1 | .02 | .05 |

### SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | SUS-PENDED SEDI-MENT (MG/L) | SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) |
|---|---|---|---|---|
| JAN. | | | | |
| 16... | 1115 | 5.5 | 6 | .09 |
| MAR. | | | | |
| 26... | 1120 | 195 | 17 | 12 |
| APR. | | | | |
| 19... | 1430 | 310 | 4 | 3.3 |
| MAY | | | | |
| 15... | 1500 | 424 | 4 | 4.6 |
| JUNE | | | | |
| 19... | 0800 | 62 | 1 | .17 |
| JULY | | | | |
| 23... | 0930 | 30 | 1 | .08 |
| AUG. | | | | |
| 15... | 1535 | 17 | 4 | .18 |
| SEP. | | | | |
| 26... | 1400 | 55 | 4 | .59 |

## 01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 14.0 | 11.0 | 8.0 | 6.0 | 4.5 | 2.0 | 2.5 | 2.5 | 3.5 | 2.0 | 4.5 | 3.5 |
| 2 | 13.0 | 12.0 | 8.5 | 5.5 | 3.0 | 1.5 | 2.5 | 1.5 | 2.0 | 1.0 | 5.0 | 4.5 |
| 3 | 17.0 | 13.0 | 7.5 | 5.0 | 3.5 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0 | 5.0 | 5.0 |
| 4 | 16.0 | 14.0 | 5.0 | 5.0 | 6.0 | 3.0 | 1.5 | 1.5 | --- | --- | 5.5 | 5.0 |
| 5 | 15.5 | 13.5 | 5.0 | 4.5 | 7.5 | 5.5 | 1.5 | 1.0 | --- | --- | 6.5 | 5.5 |
| 6 | 14.0 | 11.5 | 4.5 | 4.0 | 7.5 | 4.5 | 1.0 | 1.0 | --- | --- | 6.5 | 6.0 |
| 7 | 13.0 | 10.5 | 4.5 | 4.0 | 4.5 | 4.0 | 1.0 | 1.0 | --- | --- | 6.0 | 6.0 |
| 8 | 13.0 | 10.5 | 5.0 | 4.0 | 4.0 | 3.5 | 1.0 | 0.5 | --- | --- | 6.0 | 6.0 |
| 9 | 13.0 | 11.0 | 4.5 | 3.0 | 4.0 | 2.0 | 0.5 | 0.0 | --- | --- | 6.0 | 5.0 |
| 10 | 15.0 | 12.0 | 3.0 | 2.0 | 4.5 | 4.0 | 0.0 | 0.0 | --- | --- | 5.0 | 5.0 |
| 11 | 14.0 | 12.0 | 3.0 | 2.0 | 4.0 | 3.5 | 0.0 | 0.0 | --- | --- | 5.0 | 4.5 |
| 12 | 14.0 | 11.0 | 4.0 | 2.5 | 3.5 | 2.5 | 0.0 | 0.0 | --- | --- | 4.5 | 4.5 |
| 13 | 14.0 | 11.0 | 5.5 | 4.0 | 3.5 | 2.0 | 0.0 | 0.0 | --- | --- | 5.5 | 4.5 |
| 14 | 14.0 | 12.0 | 8.0 | 5.5 | 4.0 | 3.0 | 0.0 | 0.0 | --- | --- | 4.5 | 4.5 |
| 15 | 13.5 | 11.0 | 8.5 | 5.5 | 3.0 | 2.0 | 0.0 | 0.0 | 0.5 | 0.0 | 4.5 | 4.5 |
| 16 | 12.5 | 9.5 | 8.5 | 4.0 | 2.0 | 1.5 | 1.0 | 0.0 | 0.0 | 0.0 | 5.0 | 4.5 |
| 17 | 9.5 | 8.5 | 4.0 | 3.0 | 1.5 | 0.5 | 1.0 | 1.0 | 0.0 | 0.0 | 5.0 | 5.0 |
| 18 | 8.5 | 8.0 | 5.0 | 3.0 | 0.5 | 0.5 | 1.0 | 0.0 | 0.0 | 0.0 | 5.0 | 4.5 |
| 19 | 9.0 | 7.0 | 5.0 | 3.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.5 | 0.0 | 5.0 | 4.5 |
| 20 | 9.5 | 8.5 | 3.5 | 2.0 | 2.0 | 0.5 | 0.0 | 0.0 | 0.5 | 0.5 | 5.5 | 5.0 |
| 21 | 10.5 | 7.5 | 4.0 | 2.0 | 2.0 | 1.5 | 0.0 | 0.0 | 1.5 | 0.5 | 5.5 | 5.0 |
| 22 | 10.0 | 6.5 | 6.5 | 4.0 | 1.5 | 1.5 | 0.5 | 0.0 | 1.5 | 1.5 | 5.0 | 4.5 |
| 23 | 10.5 | 6.5 | 5.5 | 3.5 | 2.5 | 1.5 | 1.5 | 0.5 | 2.5 | 1.5 | 6.0 | 5.0 |
| 24 | 11.0 | 7.0 | 5.5 | 4.5 | 2.5 | 1.5 | 1.5 | 1.5 | 2.5 | 2.0 | 6.0 | 5.5 |
| 25 | 10.5 | 7.5 | 7.0 | 5.5 | 1.5 | 1.0 | 1.5 | 1.5 | 2.5 | 2.0 | 5.5 | 4.5 |
| 26 | 11.5 | 7.5 | 6.0 | 4.5 | 3.5 | 1.5 | 1.5 | 1.5 | 3.0 | 2.5 | 5.5 | 4.5 |
| 27 | 9.5 | 6.5 | 6.0 | 4.5 | 4.0 | 3.5 | 3.5 | 1.5 | 3.0 | 3.0 | 6.0 | 4.5 |
| 28 | 6.5 | 5.5 | 8.0 | 6.0 | 4.0 | 3.5 | 3.5 | 3.0 | 3.5 | 3.0 | 6.0 | 4.5 |
| 29 | 7.5 | 5.5 | 7.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | --- | --- | 5.5 | 4.0 |
| 30 | 8.5 | 7.5 | 5.5 | 3.5 | 4.0 | 2.5 | 3.0 | 3.0 | --- | --- | 4.0 | 4.0 |
| 31 | 9.0 | 7.0 | --- | --- | 3.0 | --- | 3.0 | 3.0 | --- | --- | 5.0 | 4.0 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 7.0 | 5.0 | 12.0 | 10.5 | 13.5 | 13.0 | 16.5 | 13.5 | 22.0 | 17.5 | --- | --- |
| 2 | 7.0 | 6.5 | 12.0 | 8.5 | 13.5 | 12.5 | 17.0 | 13.5 | 20.0 | 17.5 | --- | --- |
| 3 | 9.0 | 6.0 | 10.0 | 8.5 | 13.5 | 11.5 | 17.0 | 15.0 | 22.0 | 18.0 | --- | --- |
| 4 | 9.5 | 8.0 | 10.0 | 8.5 | 14.0 | 12.0 | 17.0 | 14.5 | 20.5 | 18.0 | --- | --- |
| 5 | 9.0 | 7.5 | 10.0 | 7.5 | 19.0 | 14.0 | 17.0 | 16.0 | 20.5 | 18.0 | --- | --- |
| 6 | 7.5 | 6.5 | 9.5 | 8.0 | 19.5 | 13.5 | 17.0 | 15.0 | 20.0 | 18.0 | --- | --- |
| 7 | 8.0 | 5.5 | 8.0 | 7.5 | 17.5 | 13.0 | 17.5 | 15.5 | 21.5 | 18.0 | --- | --- |
| 8 | 8.0 | 7.0 | 9.5 | 7.0 | 19.0 | 14.0 | 17.5 | 16.0 | 24.0 | 18.0 | --- | --- |
| 9 | 7.0 | 4.5 | 9.5 | 8.5 | 20.5 | 14.5 | --- | --- | 19.5 | 18.0 | --- | --- |
| 10 | 6.0 | 5.0 | 9.0 | 9.0 | 21.0 | 14.5 | --- | --- | 24.5 | 18.0 | --- | --- |
| 11 | 8.0 | 5.5 | 11.0 | 8.0 | 20.0 | 16.5 | --- | --- | 23.5 | 18.0 | --- | --- |
| 12 | 8.5 | 7.0 | 11.0 | 10.0 | 17.0 | 13.0 | 20.0 | 16.0 | 24.5 | 18.5 | --- | --- |
| 13 | 9.5 | 7.5 | 10.0 | 8.5 | 16.5 | 11.5 | 21.5 | 16.0 | 23.0 | 18.5 | --- | --- |
| 14 | 11.0 | 8.5 | 11.5 | 8.0 | 15.5 | 12.0 | 22.5 | 16.0 | 25.5 | 18.5 | --- | --- |
| 15 | 10.5 | 8.5 | 13.5 | 10.0 | 17.0 | 12.5 | 22.5 | 17.5 | 25.0 | 18.0 | --- | --- |
| 16 | 9.5 | 7.5 | 13.0 | 10.5 | 16.5 | 14.0 | 20.5 | 17.0 | 25.0 | 18.0 | --- | --- |
| 17 | 10.5 | 7.5 | 13.5 | 11.5 | 17.0 | 13.0 | 20.5 | 16.5 | 19.5 | 18.5 | --- | --- |
| 18 | 10.5 | 8.0 | 13.5 | 11.5 | 17.0 | 12.5 | 20.5 | 17.0 | 21.0 | 18.5 | --- | --- |
| 19 | 10.0 | 8.5 | 13.5 | 11.0 | 16.0 | 12.5 | 21.5 | 17.5 | 22.0 | 19.0 | --- | --- |
| 20 | 10.5 | 7.5 | 13.5 | 10.5 | 17.5 | 14.0 | 20.5 | 16.5 | 24.5 | 19.0 | --- | --- |
| 21 | 10.5 | 7.0 | 12.0 | 10.0 | 17.0 | 14.0 | 20.0 | 17.0 | 24.5 | 19.0 | --- | --- |
| 22 | 10.5 | 9.5 | 14.0 | 11.0 | 17.5 | 13.5 | 22.0 | 17.0 | 22.0 | 19.0 | --- | --- |
| 23 | 9.5 | 9.0 | 14.0 | 13.0 | 17.0 | 14.0 | 18.5 | 17.0 | 19.5 | 19.0 | --- | --- |
| 24 | 9.5 | 7.5 | 13.0 | 11.5 | 16.0 | 12.5 | 17.5 | 17.0 | 20.5 | 19.0 | --- | --- |
| 25 | 8.5 | 6.5 | 12.0 | 11.0 | 16.0 | 13.5 | 18.5 | 17.0 | 20.5 | 18.5 | --- | --- |
| 26 | 9.0 | 7.5 | 11.0 | 10.5 | 12.5 | 12.0 | 19.0 | 17.0 | --- | --- | 12.0 | 9.0 |
| 27 | 10.0 | 7.5 | 10.5 | 10.0 | 14.0 | 12.0 | 21.5 | 17.0 | --- | --- | --- | --- |
| 28 | 11.5 | 8.5 | 11.0 | 10.0 | 14.5 | 12.5 | 23.0 | 17.5 | --- | --- | --- | --- |
| 29 | 13.5 | 10.5 | 11.0 | 10.5 | 15.0 | 12.5 | 23.0 | 18.0 | --- | --- | --- | --- |
| 30 | 13.5 | 11.5 | 13.5 | 10.5 | 15.5 | 13.0 | 22.0 | 18.0 | --- | --- | --- | --- |
| 31 | --- | --- | 13.5 | 12.5 | --- | --- | 21.5 | 17.5 | --- | --- | --- | --- |

## 01364501 ESOPUS CREEK AT SAUGERTIES, N.Y.

LOCATION.--Lat 42°04'16", long 73°57'[illegible]2", Ulster County, at bridge on U.S. Highway 9W in Saugerties, 300 ft (91 m) upstream from dam, 1.3 mi (2.1 km) upstream from mouth, and 3.2 mi (5.1 km) downstream from gaging station (01364500) at Mount Marion.

DRAINAGE AREA.--425 mi² (1,101 km²).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | -- | E36 | .4 | 400 | 190 | -- | 28 | -- | 4.9 | -- | 23 | -- |
| NOV. 07... | 1145 | E78 | 4.1 | 350 | 100 | -- | 21 | -- | 4.1 | -- | 19 | -- |
| DEC. 11... | 1430 | E1200 | 4.0 | 480 | 60 | -- | 9.9 | -- | 2.1 | -- | 5.0 | -- |
| MAR. 11... | 1315 | E814 | 2.0 | 180 | 20 | -- | 9.0 | -- | 1.7 | -- | 4.7 | -- |
| APR. 22... | 1245 | E1010 | 2.0 | -- | 100 | -- | 8.6 | -- | 1.6 | -- | 4.5 | -- |
| MAY 21... | 1210 | E312 | 2.5 | 460 | 100 | 10 | -- | 1.8 | -- | 5.0 | -- | .7 |
| JUNE 17... | 1200 | E674 | 3.0 | 470 | 150 | 21 | -- | 3.6 | -- | 13 | -- | 1.0 |
| JULY 15... | 1250 | E103 | -- | 210 | 60 | 15 | -- | 2.8 | -- | 9.5 | -- | .9 |
| AUG. 12... | 1300 | E37 | -- | 500 | 180 | 26 | -- | 4.3 | -- | 20 | -- | 1.6 |
| SEP. 09... | 1200 | E180 | -- | 280 | 80 | 18 | -- | 3.0 | -- | 10 | -- | 1.2 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 2.2 | 78 | 0 | 64 | 26 | 36 | -- | .3 | 1.1 | .00 | .00 | .21 |
| NOV. 07... | 2.3 | 55 | 0 | 45 | 25 | 23 | -- | .2 | .89 | .00 | .00 | .28 |
| DEC. 11... | 1.2 | 21 | 0 | 17 | 15 | 6.4 | -- | .3 | .42 | .00 | .00 | .13 |
| MAR. 11... | .8 | 20 | 0 | 16 | 12 | 7.3 | -- | .1 | .40 | .01 | .14 | .10 |
| APR. 22... | .7 | 20 | 0 | 16 | 12 | 6.8 | -- | .1 | .36 | .01 | .10 | .06 |
| MAY 21... | -- | 25 | 0 | 21 | 12 | 8.4 | .1 | -- | .37 | .01 | .09 | .13 |
| JUNE 17... | -- | 52 | 0 | 43 | 19 | 22 | .2 | -- | .51 | .02 | .10 | .39 |
| JULY 15... | -- | 41 | 0 | 34 | 16 | 15 | -- | -- | .07 | .01 | .18 | .27 |
| AUG. 12... | -- | 67 | -- | 55 | 26 | 34 | -- | -- | .22 | .02 | .24 | .09 |
| SEP. 09... | -- | 48 | -- | 39 | 19 | 16 | -- | -- | .42 | .00 | .21 | .20 |

E Estimated value.

### 01364501 ESOPUS CREEK AT SAUGERTIES, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | .21 | 1.3 | .06 | -- | .01 | 159 | 194 | 139 | 10 | 2 | 90 | 26 |
| NOV. 07... | .28 | 1.2 | .02 | -- | .01 | 126 | 155 | 139 | 17 | 9 | 69 | 24 |
| DEC. 11... | .13 | .55 | .02 | -- | .01 | 54 | 81 | 63 | 8 | 6 | 33 | 16 |
| MAR. 11... | .24 | .65 | .07 | -- | .00 | 47 | 60 | 52 | 18 | 13 | 29 | 13 |
| APR. 22... | .16 | .53 | .02 | -- | .01 | 46 | 62 | 48 | 8 | 5 | 28 | 12 |
| MAY 21... | .22 | .60 | .03 | .01 | -- | -- | 70 | 53 | 12 | 6 | -- | -- |
| JUNE 17... | .49 | 1.0 | .05 | .01 | -- | -- | 137 | 102 | 10 | 4 | -- | -- |
| JULY 15... | .45 | .53 | .04 | .01 | -- | -- | 104 | 75 | 6 | 6 | -- | -- |
| AUG. 12... | .33 | .57 | .03 | .01 | -- | -- | 186 | 146 | 11 | 8 | -- | -- |
| SEP. 09... | .41 | .83 | .04 | .01 | -- | -- | 120 | 101 | 4 | 0 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 307 | 7.4 | -- | -- | 9 | -- | .0 | -- | -- | -- | -- |
| NOV. 07... | 229 | 7.2 | -- | -- | 9 | -- | .0 | 0 | 10 | 5 | 6.2 |
| DEC. 11... | 98 | 6.9 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| MAR. 11... | 95 | 7.0 | -- | -- | 6 | -- | .0 | -- | -- | -- | -- |
| APR. 22... | 87 | 7.1 | -- | -- | 4 | -- | .0 | 1 | -- | -- | -- |
| MAY 21... | 106 | 7.6 | -- | -- | 6 | -- | .0 | 1 | 10 | 6 | <.5 |
| JUNE 17... | 206 | 7.2 | -- | -- | 8 | -- | .0 | -- | -- | -- | -- |
| JULY 15... | 159 | 8.4 | 3 | 3 | 9 | 2.2 | -- | -- | -- | -- | -- |
| AUG. 12... | 273 | -- | 3 | 4 | 13 | 5.1 | -- | <1 | 10 | 11 | <.5 |
| SEP. 09... | 143 | -- | 4 | 5 | 22 | 6.9 | -- | -- | -- | -- | -- |

## 01364950 HUDSON RIVER AT KINGSTON POINT, N.Y.

LOCATION.--Lat 41°55'40", long 73°57'44", Ulster County, at pier at Kingston Point in Kingston and 0.6 mi (1.0 km) upstream from Rondout Creek.

DRAINAGE AREA.--10,515 $mi^2$ (27,234 $km^2$).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.
Water temperatures: July 1959 to March 1966.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1045 | .4 | 430 | 410 | -- | 23 | -- | 5.4 | -- | 14 | -- | 1.8 |
| NOV. 07... | 1055 | .5 | 790 | 60 | -- | 23 | -- | 5.4 | -- | 12 | -- | 1.8 |
| DEC. 11... | 1520 | 4.0 | 760 | 60 | -- | 21 | -- | 4.5 | -- | 6.5 | -- | 1.9 |
| JAN. 15... | 1120 | 4.7 | 450 | 40 | -- | 21 | -- | 4.7 | -- | 7.5 | -- | 1.6 |
| FEB. 13... | 1200 | 4.8 | 630 | 50 | -- | 23 | -- | 4.6 | -- | 6.0 | -- | 1.4 |
| MAR. 11... | 1215 | 3.7 | 1200 | 40 | -- | 22 | -- | 4.0 | -- | 5.4 | -- | 1.8 |
| APR. 22... | 1145 | 4.0 | -- | 40 | -- | 18 | -- | 3.6 | -- | 5.0 | -- | 1.2 |
| MAY 21... | 1130 | 4.0 | 530 | 50 | 20 | -- | 3.3 | -- | 4.5 | -- | 1.0 | -- |
| JUNE 17... | 1115 | .1 | 530 | 60 | 20 | -- | 4.2 | -- | 6.3 | -- | 1.5 | -- |
| JULY 15... | 1105 | -- | 1000 | 60 | 27 | -- | 4.9 | -- | 6.6 | -- | 1.8 | -- |
| AUG. 12... | 1200 | -- | 250 | 50 | 24 | -- | 3.0 | -- | 7.3 | -- | 2.0 | -- |
| SEP. 09... | 1100 | -- | 450 | 90 | 22 | -- | 4.6 | -- | 8.5 | -- | 1.5 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 70 | 0 | 57 | 24 | 17 | -- | .4 | 1.1 | .00 | .02 | .73 | .75 |
| NOV. 07... | 70 | 0 | 57 | 25 | 16 | -- | .3 | 1.1 | .00 | .00 | .45 | .45 |
| DEC. 11... | 50 | 0 | 41 | 24 | 9.4 | -- | .3 | .82 | .00 | .11 | .15 | .26 |
| JAN. 15... | 58 | 0 | 48 | 23 | 9.8 | -- | .1 | .85 | .15 | .02 | .47 | .49 |
| FEB. 13... | 62 | 0 | 51 | 23 | 11 | -- | .1 | .85 | .01 | .21 | .31 | .52 |
| MAR. 11... | 61 | 0 | 50 | 18 | 8.7 | -- | .1 | .70 | .08 | .31 | .27 | .58 |
| APR. 22... | 50 | 0 | 41 | 17 | 7.6 | -- | .1 | .52 | .03 | .20 | .10 | .30 |
| MAY 21... | 49 | 0 | 40 | 15 | 7.1 | .1 | -- | .45 | .03 | .11 | .33 | .44 |
| JUNE 17... | 59 | 0 | 48 | 17 | 9.2 | .2 | -- | .40 | .01 | .10 | .36 | .46 |
| JULY 15... | 83 | 0 | 68 | 25 | 9.7 | -- | -- | .75 | .10 | .24 | .22 | .46 |
| AUG. 12... | 72 | -- | 59 | 22 | 11 | -- | -- | .46 | .01 | .21 | .10 | .31 |
| SEP. 09... | 69 | -- | 57 | 22 | 14 | -- | -- | .64 | .04 | .23 | .21 | .44 |

### 01364950 HUDSON RIVER AT KINGSTON POINT, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 10... | 1.8 | .10 | -- | .03 | 121 | 164 | 116 | 14 | 6 | 80 | 22 |
| NOV. | | | | | | | | | | | |
| 07... | 1.5 | .05 | -- | .02 | 119 | 170 | 150 | 27 | 20 | 80 | 22 |
| DEC. | | | | | | | | | | | |
| 11... | 1.1 | .07 | -- | .04 | 96 | 142 | 103 | 21 | 19 | 71 | 30 |
| JAN. | | | | | | | | | | | |
| 15... | 1.5 | .05 | -- | .03 | 101 | 131 | 96 | 4 | 0 | 72 | 24 |
| FEB. | | | | | | | | | | | |
| 13... | 1.4 | .06 | -- | .03 | 105 | 93 | 58 | 32 | 29 | 76 | 26 |
| MAR. | | | | | | | | | | | |
| 11... | 1.4 | .05 | -- | .02 | 94 | 142 | 120 | 39 | 32 | 71 | 21 |
| APR. | | | | | | | | | | | |
| 22... | .85 | .06 | -- | .03 | 81 | 122 | 112 | 22 | 20 | 60 | 19 |
| MAY | | | | | | | | | | | |
| 21... | .92 | .06 | .02 | -- | -- | 117 | 88 | 31 | 27 | -- | -- |
| JUNE | | | | | | | | | | | |
| 17... | .87 | .07 | .03 | -- | -- | 135 | 93 | 17 | 15 | -- | -- |
| JULY | | | | | | | | | | | |
| 15... | 1.3 | .10 | .08 | -- | -- | 177 | 133 | 27 | 24 | -- | -- |
| AUG. | | | | | | | | | | | |
| 12... | .78 | .05 | .03 | -- | -- | 175 | 125 | 15 | 12 | -- | -- |
| SEP. | | | | | | | | | | | |
| 09... | 1.1 | .06 | .03 | -- | -- | 148 | 120 | 22 | 20 | -- | -- |

| DATE | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 10... | 233 | 7.2 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 07... | 232 | 7.3 | -- | -- | 18 | -- | .0 | <1 | 20 | 11 | 3.3 |
| DEC. | | | | | | | | | | | |
| 11... | 178 | 7.4 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 15... | 187 | 7.3 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 13... | 195 | 7.4 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 11... | 180 | 7.3 | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 22... | 150 | 7.4 | -- | -- | 11 | -- | .0 | 1 | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 21... | 145 | 7.3 | -- | -- | 12 | -- | .0 | 2 | 10 | 3 | <.5 |
| JUNE | | | | | | | | | | | |
| 17... | 179 | 7.6 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 15... | 214 | 7.6 | 30 | 30 | 14 | 4.2 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 12... | 208 | -- | 2 | 6 | 16 | 3.9 | -- | 2 | 10 | 0 | <.5 |
| SEP. | | | | | | | | | | | |
| 09... | 168 | -- | 7 | 8 | 28 | 6.7 | -- | -- | -- | -- | -- |

## 01368000 WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWEN, N.J.)

LOCATION.--Lat 41°15'36", long 74°32'36", Sussex County, New Jersey, at gaging station at bridge on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey state line, and 3.0 mi (4.8 km) south of Unionville.

DRAINAGE AREA.--140 $mi^2$ (363 $km^2$).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC. 04... | 0800 | 102 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FEB. 12... | 1115 | 184 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. 18... | 0730 | 452 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY 21... | 1145 | 167 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY 10... | 1430 | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG. 21... | 1030 | 41 | 5.6 | 900 | 150 | 41 | 14 | 13 | 2.4 | 147 | 121 | 32 |
| SEP. 18... | 1500 | 102 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC. 04... | -- | -- | .71 | .01 | .73 | .11 | .20 | .31 | 1.0 | .04 | .03 | .03 |
| FEB. 12... | -- | -- | 1.3 | .00 | 1.3 | .14 | .26 | .40 | 1.7 | .03 | .02 | .02 |
| APR. 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY 21... | -- | -- | .61 | .03 | .64 | .15 | .39 | .54 | 1.2 | .08 | .03 | .24 |
| JULY 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG. 21... | 26 | .2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP. 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC. 04... | -- | 309 | 7.6 | 3.0 | -- | -- | 12.4 | 0 | 80 | 6 | -- |
| FEB. 12... | -- | 301 | 7.4 | .0 | -- | -- | 13.6 | 130 | 20 | 6 | 1.0 |
| APR. 18... | -- | 254 | 7.6 | 11.5 | -- | -- | 8.4 | 1370 | 1240 | 100 | -- |
| MAY 21... | -- | 250 | 8.8 | 17.0 | -- | -- | 7.0 | 0 | 2000 | 16 | 6.7 |
| JULY 10... | -- | 381 | 8.9 | 27.5 | -- | -- | 8.6 | 350 | 130 | 190 | -- |
| AUG. 21... | 266 | 372 | 8.1 | -- | 5 | 30 | 9.6 | -- | 196 | 430 | 7.5 |
| SEP. 18... | -- | 326 | 7.6 | 18.5 | -- | -- | 8.4 | 13000 | 640 | 40 | -- |

## 01372003 WALLKILL RIVER NEAR ROSENDALE, N.Y.

**LOCATION.**--Lat 41°48'53", long 74°03'33", Ulster County, at bridge on State Highway 32 and 213, 0.2 mi (0.3 km) upstream from Interstate Highway 87, 1.0 mi (1.6 km) south of Tillson, and 1.7 mi (2.7 km) southeast of Rosendale.

**DRAINAGE AREA.**--764 mi² (1,979 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to May 1970, May 1971 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 1400 | 1.1 | 590 | 90 | -- | 42 | -- | 12 | -- | 15 | -- |
| NOV. | | | | | | | | | | | |
| 13... | 1400 | 7.2 | -- | -- | -- | 35 | -- | 10 | -- | 12 | -- |
| FEB. | | | | | | | | | | | |
| 20... | 1620 | 3.5 | 1000 | 60 | -- | 21 | -- | 5.5 | -- | 7.7 | -- |
| MAR. | | | | | | | | | | | |
| 18... | 1530 | 4.0 | 1400 | 60 | -- | 22 | -- | 5.5 | -- | 8.0 | -- |
| APR. | | | | | | | | | | | |
| 16... | 1000 | 2.9 | 2000 | 90 | -- | 18 | -- | 5.5 | -- | 6.5 | -- |
| MAY | | | | | | | | | | | |
| 16... | 1430 | 3.8 | 670 | 60 | 19 | -- | 4.2 | -- | 6.4 | -- | 1.4 |
| JUNE | | | | | | | | | | | |
| 11... | 1300 | 2.0 | 390 | 90 | 31 | -- | 8.8 | -- | 9.4 | -- | 1.3 |
| JULY | | | | | | | | | | | |
| 10... | 1400 | -- | 520 | 90 | 36 | -- | 9.2 | -- | 11 | -- | 1.6 |
| AUG. | | | | | | | | | | | |
| 06... | 1050 | -- | 160 | 60 | 15 | -- | 2.9 | -- | 6.0 | -- | .8 |
| SEP. | | | | | | | | | | | |
| 04... | 1300 | -- | 930 | 90 | 20 | -- | 8.3 | -- | 10 | -- | 1.9 |
| 25... | 1530 | -- | 330 | 70 | 26 | -- | 8.4 | -- | 9.1 | -- | 1.7 |

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 23... | 3.0 | 151 | 0 | 124 | 41 | 23 | -- | .3 | .77 | .00 | .01 |
| NOV. | | | | | | | | | | | |
| 13... | 3.0 | 107 | 0 | 88 | 42 | 17 | -- | .3 | 1.2 | .01 | .00 |
| FEB. | | | | | | | | | | | |
| 20... | 1.8 | 60 | 0 | 49 | 23 | 15 | -- | .1 | .81 | .02 | .25 |
| MAR. | | | | | | | | | | | |
| 18... | 2.0 | 50 | 0 | 41 | 29 | 16 | -- | .2 | 1.0 | .09 | .25 |
| APR. | | | | | | | | | | | |
| 16... | 1.5 | 57 | 0 | 47 | 22 | 12 | -- | .1 | .70 | .04 | .01 |
| MAY | | | | | | | | | | | |
| 16... | -- | 52 | 0 | 43 | 18 | 9.7 | .2 | -- | .40 | .04 | .14 |
| JUNE | | | | | | | | | | | |
| 11... | -- | 108 | 0 | 89 | 26 | 16 | .2 | -- | .03 | .12 | .38 |
| JULY | | | | | | | | | | | |
| 10... | -- | 119 | 0 | 98 | 31 | 18 | -- | -- | .83 | .26 | .21 |
| AUG. | | | | | | | | | | | |
| 06... | -- | 41 | -- | 34 | 16 | 7.4 | -- | -- | .09 | .01 | .18 |
| SEP. | | | | | | | | | | | |
| 04... | -- | 88 | -- | 72 | 26 | 19 | -- | -- | .60 | .03 | .35 |
| 25... | -- | 84 | -- | 69 | 21 | 15 | -- | -- | .39 | .03 | .30 |

CONTINUED NEXT PAGE

## 01372083 WALLKILL RIVER NEAR ROSENDALE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | .39 | .40 | 1.2 | .20 | -- | .16 | 212 | 225 | 195 | 8 |
| NOV. 13... | .62 | .62 | 1.8 | .15 | -- | .14 | 180 | -- | -- | 14 |
| FEB. 20... | .40 | .65 | 1.5 | .11 | -- | .07 | 107 | 159 | 118 | 30 |
| MAR. 18... | .28 | .53 | 1.6 | .15 | -- | .10 | 112 | 183 | 144 | 49 |
| APR. 16... | .67 | .68 | 1.4 | .18 | -- | .10 | 97 | 190 | 151 | 73 |
| MAY 16... | .28 | .42 | .86 | .09 | .05 | -- | -- | 127 | 98 | 22 |
| JUNE 11... | .28 | .66 | .81 | .16 | .11 | -- | -- | 209 | 148 | 11 |
| JULY 10... | .31 | .52 | .81 | .18 | .12 | -- | -- | 222 | 162 | 16 |
| AUG. 06... | .13 | .31 | .41 | .05 | .02 | -- | -- | 88 | 72 | 5 |
| SEP. 04... | .20 | .55 | 1.2 | .19 | .12 | -- | -- | 199 | 151 | 34 |
| 25... | .23 | .53 | .95 | .12 | .09 | -- | -- | 168 | 139 | 8 |

| DATE | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | 3 | 150 | 30 | 397 | 7.7 | -- | -- | 10 | .0 | -- |
| NOV. 13... | 10 | 130 | 41 | 331 | 7.7 | -- | -- | 18 | .0 | 2 |
| FEB. 20... | 26 | 75 | 26 | 194 | 7.2 | -- | -- | 13 | .0 | -- |
| MAR. 18... | 44 | 78 | 37 | 207 | 7.4 | -- | -- | 23 | .0 | -- |
| APR. 16... | 57 | 68 | 21 | 186 | 7.2 | -- | -- | 32 | .0 | -- |
| MAY 16... | 15 | -- | -- | 167 | 7.3 | -- | -- | 16 | .0 | -- |
| JUNE 11... | 8 | -- | -- | 272 | 8.7 | -- | -- | 19 | .0 | -- |
| JULY 10... | 13 | -- | -- | 273 | 8.4 | 20 | 6 | 20 | -- | -- |
| AUG. 06... | 4 | -- | -- | 130 | -- | 4 | 2 | 13 | -- | -- |
| SEP. 04... | 28 | -- | -- | 266 | -- | 20 | 20 | 20 | -- | -- |
| 25... | 6 | -- | -- | 252 | -- | 20 | 5 | 17 | -- | -- |

## 01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.

LOCATION.--Lat 41°53'39", long 74°01'13", Ulster County, at upstream side of dam 200 ft (61 m) upstream from bridge on State Highway 213 in Eddyville and 1.2 mi (1.9 km) upstream from Twaalfskill Brook.

DRAINAGE AREA.-- 1,186 mi² (3,072 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>23... | 1500 | 2.6 | 600 | 80 | -- | 30 | -- | 8.3 | -- | 11 | -- |
| NOV.<br>13... | 1325 | 5.3 | -- | -- | -- | 28 | -- | 8.0 | -- | 10 | -- |
| 00... | 1530 | 3.4 | 1000 | 50 | -- | 18 | -- | 4.6 | -- | 6.9 | -- |
| FEB.<br>20... | 1600 | 4.4 | 400 | 40 | -- | 25 | -- | 6.2 | -- | 8.0 | -- |
| MAR.<br>18... | 1530 | 3.4 | 1000 | 50 | -- | 18 | -- | 4.6 | -- | 6.9 | -- |
| APR.<br>17... | 1000 | 2.8 | 1500 | 70 | -- | 18 | -- | 4.4 | -- | 5.9 | -- |
| MAY<br>16... | 1455 | 4.7 | 830 | 50 | 33 | -- | 6.0 | -- | 8.0 | -- | 1.8 |
| JUNE<br>12... | 1200 | 3.3 | 2400 | 170 | 33 | -- | 7.9 | -- | 9.2 | -- | 2.0 |
| JULY<br>10... | 1300 | -- | 160 | 50 | 32 | -- | 7.4 | -- | 9.8 | -- | 1.5 |
| AUG.<br>06... | 1030 | -- | 150 | 90 | 28 | -- | 7.3 | -- | 9.5 | -- | 1.5 |
| SEP.<br>04... | 1300 | -- | 620 | 80 | 20 | -- | 5.0 | -- | 6.0 | -- | 1.4 |
| 25... | 1500 | -- | 450 | 80 | 34 | -- | 10 | -- | 11 | -- | 1.7 |

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>23... | 2.2 | 106 | 0 | 87 | 26 | 16 | -- | .3 | .65 | .00 | .01 |
| NOV.<br>13... | 3.2 | 81 | 0 | 66 | 34 | 16 | -- | .2 | 1.3 | .01 | .00 |
| 00... | 2.0 | 46 | 0 | 38 | 21 | 11 | -- | .0 | .57 | .04 | .22 |
| FEB.<br>20... | 1.3 | 72 | 0 | 59 | 24 | 15 | -- | .0 | .95 | .01 | .19 |
| MAR.<br>18... | 2.0 | 46 | 0 | 38 | 21 | 11 | -- | .0 | .57 | .04 | .22 |
| APR.<br>17... | 2.0 | 48 | 0 | 39 | 21 | 11 | -- | .1 | .55 | .04 | .00 |
| MAY<br>16... | -- | 64 | 0 | 53 | 19 | 13 | .3 | -- | .43 | .05 | .13 |
| JUNE<br>12... | -- | 88 | 0 | 72 | 23 | 14 | .2 | -- | .67 | .00 | .00 |
| JULY<br>10... | -- | 97 | 0 | 80 | 26 | 16 | -- | -- | .42 | .09 | .20 |
| AUG.<br>06... | -- | 87 | -- | 71 | 32 | 17 | -- | -- | .16 | .03 | .25 |
| SEP.<br>04... | -- | 57 | -- | 47 | 19 | 10 | -- | -- | .31 | .02 | .30 |
| 25... | -- | 113 | -- | 93 | 22 | 19 | -- | -- | .39 | .00 | .41 |

CONTINUED NEXT PAGE

### 01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 23... | .26 | .27 | .93 | .11 | -- | .08 | 149 | 181 | 153 | 4 |
| NOV. | | | | | | | | | | |
| 13... | .54 | .54 | 1.8 | .11 | -- | .08 | 145 | -- | -- | 59 |
| 00... | .00 | .22 | .83 | .08 | -- | .05 | 90 | 133 | 106 | 27 |
| FEB. | | | | | | | | | | |
| 20... | .27 | .46 | 1.4 | .06 | -- | .05 | 120 | 166 | 124 | 11 |
| MAR. | | | | | | | | | | |
| 18... | .00 | .22 | .83 | .08 | -- | .05 | 90 | 133 | 106 | 27 |
| APR. | | | | | | | | | | |
| 17... | .60 | .60 | 1.2 | .16 | -- | .10 | 89 | 167 | 124 | 45 |
| MAY | | | | | | | | | | |
| 16... | .34 | .47 | .95 | .12 | .07 | -- | -- | 142 | 98 | 26 |
| JUNE | | | | | | | | | | |
| 12... | .39 | .39 | 1.1 | .10 | .06 | -- | -- | 195 | 139 | 27 |
| JULY | | | | | | | | | | |
| 10... | .24 | .44 | .95 | .12 | .09 | -- | -- | 180 | 128 | 4 |
| AUG. | | | | | | | | | | |
| 06... | .40 | .65 | .84 | .11 | .06 | -- | -- | 178 | 128 | 11 |
| SEP. | | | | | | | | | | |
| 04... | .08 | .38 | .71 | .11 | .07 | -- | -- | 126 | 98 | 14 |
| 25... | .47 | .88 | 1.3 | .18 | .10 | -- | -- | 318 | 181 | 17 |

| DATE | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 23... | 0 | 110 | 22 | 284 | 7.4 | -- | -- | 11 | .0 | -- |
| NOV. | | | | | | | | | | |
| 13... | 49 | 100 | 36 | 268 | 7.5 | -- | -- | 16 | .0 | 2 |
| 00... | 27 | 64 | 26 | 167 | 7.4 | -- | -- | 12 | .0 | -- |
| FEB. | | | | | | | | | | |
| 20... | 9 | 88 | 29 | 221 | 7.5 | -- | -- | 7 | .0 | -- |
| MAR. | | | | | | | | | | |
| 18... | 27 | 64 | 26 | 167 | 7.4 | -- | -- | 12 | .0 | -- |
| APR. | | | | | | | | | | |
| 17... | 34 | 63 | 24 | 161 | 7.3 | -- | -- | 26 | .0 | -- |
| MAY | | | | | | | | | | |
| 16... | 18 | -- | -- | 197 | 7.6 | -- | -- | 21 | .0 | -- |
| JUNE | | | | | | | | | | |
| 12... | 25 | -- | -- | 252 | 7.5 | -- | -- | 24 | .0 | -- |
| JULY | | | | | | | | | | |
| 10... | 2 | -- | -- | 270 | 7.7 | 20 | 3 | 17 | -- | -- |
| AUG. | | | | | | | | | | |
| 06... | 8 | -- | -- | 261 | -- | 5 | 4 | 17 | -- | -- |
| SEP. | | | | | | | | | | |
| 04... | 10 | -- | -- | 182 | -- | 20 | 20 | 18 | -- | -- |
| 25... | 12 | -- | -- | 320 | -- | 10 | 8 | 16 | -- | -- |

## 01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.

(National Stream-Quality Accounting Network Station)

**LOCATION.**--Lat 41°43'18", long 73°56'28", Dutchess County, at city pumping station on east bank, adjacent (north) to Marist College 0.5 mi (0.8 km) north of Poughkeepsie and 1.3 mi (2.1 km) upstream from Mid-Hudson Bridge.

**DRAINAGE AREA.**--11,700 mi² (30,300 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974.
Water temperatures: June 1959 to September 1966, October 1972 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures; Maximum, 25.0°C on several days during August; minimum, 0.5°C on many days during January and February.

Period of record:
Water temperatures: Maximum, 26.5 °C Aug. 29, 1959; minimum, 0.5°C on many days during winter periods.

**REMARKS.**--No water temperature record on Sundays or holidays.

**COOPERATION.**--Water temperature record furnished by City of Poughkeepsie, Water Department.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 1040 | .4 | 2700 | 190 | -- | 23 | -- | 5.4 | -- | 12 | -- | 1.4 |
| 31... | 1130 | .3 | 860 | 70 | -- | 23 | -- | 5.5 | -- | 13 | -- | 1.7 |
| NOV. | | | | | | | | | | | | |
| 28... | 0940 | 1.1 | 2000 | 150 | -- | 25 | -- | 5.1 | -- | 12 | -- | 1.6 |
| DEC. | | | | | | | | | | | | |
| 27... | 1030 | 4.2 | 6500 | 300 | -- | 18 | -- | 3.7 | -- | 6.1 | -- | 1.4 |
| JAN. | | | | | | | | | | | | |
| 15... | 1330 | 4.4 | 3900 | 190 | -- | 19 | -- | 4.1 | -- | 6.0 | -- | 1.1 |
| FEB. | | | | | | | | | | | | |
| 14... | 1015 | 4.4 | 1400 | 50 | -- | 20 | -- | 4.0 | -- | 5.6 | -- | 1.1 |
| MAR. | | | | | | | | | | | | |
| 14... | 1315 | 4.8 | 2400 | 130 | -- | 21 | -- | 4.0 | -- | 5.9 | -- | 1.2 |
| APR. | | | | | | | | | | | | |
| 19... | 1130 | 3.5 | 1800 | 70 | 17 | -- | 4.0 | -- | 5.9 | -- | 1.4 | -- |
| MAY | | | | | | | | | | | | |
| 14... | 1140 | 3.7 | 460 | 80 | -- | 19 | -- | 3.6 | -- | 6.5 | -- | .9 |
| 14... | 1340 | 3.8 | 3600 | 240 | 18 | -- | 4.3 | -- | 6.0 | -- | 1.3 | -- |
| JUNE | | | | | | | | | | | | |
| 18... | 1315 | .2 | 970 | 60 | 20 | -- | 4.0 | -- | 5.4 | -- | 1.0 | -- |
| JULY | | | | | | | | | | | | |
| 02... | 1000 | .1 | 900 | 70 | -- | 22 | -- | 4.2 | -- | 7.6 | -- | 1.2 |
| 23... | 1300 | -- | 1100 | 840 | 27 | -- | 4.9 | -- | 9.4 | -- | 1.7 | -- |
| AUG. | | | | | | | | | | | | |
| 28... | 1645 | -- | 1600 | 130 | 25 | -- | 4.8 | -- | 7.2 | -- | 1.2 | -- |
| SEP. | | | | | | | | | | | | |
| 09... | 1230 | -- | 5500 | 330 | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | 1130 | .8 | 360 | 50 | -- | 26 | -- | 5.0 | -- | 8.9 | -- | 1.5 |

| DATE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 71 | 58 | 23 | 16 | -- | .3 | .84 | .00 | .00 | .47 | .47 | 1.3 |
| 31... | 71 | 58 | 22 | 17 | -- | .3 | .67 | .00 | .00 | .39 | .39 | 1.1 |
| NOV. | | | | | | | | | | | | |
| 28... | 66 | 54 | 25 | 16 | -- | .4 | .92 | .00 | .12 | .22 | .34 | 1.3 |
| DEC. | | | | | | | | | | | | |
| 27... | 46 | 38 | 22 | 9.7 | -- | .2 | .88 | .07 | .17 | .35 | .52 | 1.5 |
| JAN. | | | | | | | | | | | | |
| 15... | 53 | 43 | 21 | 8.7 | -- | .1 | .95 | .00 | .01 | .48 | .49 | 1.4 |
| FEB. | | | | | | | | | | | | |
| 14... | 56 | 46 | 20 | 9.7 | -- | .1 | .86 | .07 | .04 | .32 | .36 | 1.3 |
| MAR. | | | | | | | | | | | | |
| 14... | 61 | 50 | 19 | 9.8 | -- | .3 | .74 | .04 | .27 | .20 | .47 | 1.2 |
| APR. | | | | | | | | | | | | |
| 19... | 56 | 46 | 18 | 9.1 | .1 | .1 | .57 | .03 | .35 | .05 | .40 | 1.0 |
| MAY | | | | | | | | | | | | |
| 14... | 51 | 42 | 18 | 8.7 | -- | .1 | -- | -- | -- | -- | .33 | .90 |
| 14... | 51 | 42 | 16 | 8.0 | .2 | -- | .58 | .03 | .12 | .64 | .76 | 1.4 |
| JUNE | | | | | | | | | | | | |
| 18... | 55 | 45 | 16 | 8.1 | .2 | -- | .53 | .01 | .03 | .35 | .38 | .92 |
| JULY | | | | | | | | | | | | |
| 02... | 64 | 53 | 20 | 11 | -- | .2 | -- | -- | -- | -- | .36 | .96 |
| 23... | 78 | 64 | 22 | 10 | -- | -- | .77 | .01 | .20 | .03 | .23 | 1.0 |
| AUG. | | | | | | | | | | | | |
| 28... | 67 | 55 | 20 | 11 | -- | -- | .56 | .00 | .14 | .05 | .19 | .75 |
| SEP. | | | | | | | | | | | | |
| 09... | 72 | 59 | 20 | 12 | -- | -- | .46 | .00 | .20 | .39 | .59 | 1.1 |
| 10... | 73 | 60 | 24 | 12 | -- | .2 | -- | -- | -- | -- | .28 | .75 |

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## 01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | .13 | -- | .04 | -- | 117 | 122 | 72 | 67 | 59 | 80 | 21 | 229 |
| 31... | .22 | -- | -- | 131 | 116 | -- | -- | -- | -- | 80 | 22 | 229 |
| NOV. | | | | | | | | | | | | |
| 28... | .09 | -- | .02 | -- | 119 | 184 | 138 | 54 | 47 | 83 | 29 | 220 |
| DEC. | | | | | | | | | | | | |
| 27... | .19 | -- | .04 | -- | 88 | 213 | 180 | 110 | 99 | 60 | 22 | 158 |
| JAN. | | | | | | | | | | | | |
| 15... | .20 | -- | .03 | -- | 91 | 192 | 157 | 88 | 78 | 64 | 21 | 166 |
| FEB. | | | | | | | | | | | | |
| 14... | .06 | -- | .03 | -- | 93 | 129 | 98 | 24 | 22 | 66 | 20 | 179 |
| MAR. | | | | | | | | | | | | |
| 14... | .16 | -- | .04 | -- | 96 | 152 | 125 | 44 | 38 | 69 | 19 | 182 |
| APR. | | | | | | | | | | | | |
| 19... | .10 | .06 | -- | 115 | -- | 148 | 138 | 46 | 40 | -- | -- | 210 |
| MAY | | | | | | | | | | | | |
| 14... | .05 | -- | -- | 102 | 86 | -- | -- | -- | -- | 62 | 20 | 160 |
| 14... | .18 | .03 | -- | -- | -- | 219 | 160 | 112 | 98 | -- | -- | 160 |
| JUNE | | | | | | | | | | | | |
| 18... | .07 | .03 | -- | -- | -- | 124 | 93 | 16 | 12 | -- | -- | 155 |
| JULY | | | | | | | | | | | | |
| 02... | .08 | -- | -- | 122 | 98 | -- | -- | -- | -- | 72 | 20 | 190 |
| 23... | .10 | .04 | -- | -- | -- | 186 | 121 | 43 | 38 | -- | -- | 176 |
| AUG. | | | | | | | | | | | | |
| 28... | .12 | .05 | -- | -- | -- | 184 | 139 | 60 | 53 | -- | -- | 195 |
| SEP. | | | | | | | | | | | | |
| 09... | .22 | .05 | -- | -- | -- | 275 | 228 | 149 | 136 | -- | -- | 220 |
| 10... | .06 | -- | -- | 139 | 114 | -- | -- | 7 | -- | 86 | 26 | 200 |

| DATE | PH (UNITS) | TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 6.8 | 15.0 | -- | -- | 8.0 | 78 | 19 | -- | -- | -- | -- | .0 |
| 31... | 6.8 | 15.0 | -- | 15 | 8.0 | 78 | -- | 380 | 29 | <1 | -- | -- |
| NOV. | | | | | | | | | | | | |
| 28... | 7.0 | 9.0 | -- | -- | 8.7 | 76 | 19 | 3900 | 120 | 58 | -- | .0 |
| DEC. | | | | | | | | | | | | |
| 27... | 7.0 | 2.0 | -- | -- | 12.8 | 92 | 19 | B20000 | B740 | B800 | -- | .0 |
| JAN. | | | | | | | | | | | | |
| 15... | 7.1 | .0 | -- | -- | 12.2 | 98 | 20 | -- | 52 | 120 | -- | .0 |
| FEB. | | | | | | | | | | | | |
| 14... | 6.5 | .0 | -- | -- | -- | -- | 11 | -- | 98 | 58 | -- | .0 |
| MAR. | | | | | | | | | | | | |
| 14... | 5.9 | 3.0 | -- | -- | 13.4 | 88 | 19 | -- | 100 | 100 | -- | .0 |
| APR. | | | | | | | | | | | | |
| 19... | 7.5 | 11.0 | -- | 1 | -- | -- | 11 | 700 | 90 | 40 | -- | .0 |
| MAY | | | | | | | | | | | | |
| 14... | 7.3 | -- | -- | 8 | -- | -- | -- | -- | -- | -- | 2.9 | -- |
| 14... | 7.2 | 11.0 | -- | -- | -- | -- | 24 | -- | 94 | 750 | -- | .0 |
| JUNE | | | | | | | | | | | | |
| 18... | 7.3 | 21.0 | -- | -- | 8.1 | 90 | 12 | 3900 | 270 | -- | -- | .0 |
| JULY | | | | | | | | | | | | |
| 02... | 7.8 | 19.0 | -- | 10 | -- | -- | -- | -- | 8440 | B8 | 4.9 | -- |
| 23... | 7.3 | 25.5 | 8 | 20 | 6.0 | 71 | 7 | 2600 | 130 | -- | -- | -- |
| AUG. | | | | | | | | | | | | |
| 28... | 7.6 | 25.0 | 3 | 30 | 6.4 | 77 | 14 | -- | -- | -- | 6.2 | -- |
| SEP. | | | | | | | | | | | | |
| 09... | 7.6 | -- | 4 | 60 | 7.2 | 82 | 45 | -- | -- | -- | -- | -- |
| 10... | 7.5 | 22.0 | -- | 6 | -- | -- | -- | -- | 320 | B14 | 4.5 | -- |

### RADIOCHEMICAL ANALYSES

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | DIS-SOLVED RA-226 (RADON METHOD) (PC/L) | DIS-SOLVED URANIUM (U) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AUG. | | | | | | | | | | | |
| 28... | 1645 | 1.4 | 3.5 | 2.8 | 130 | 3.2 | 2.8 | 2.3 | 50 | .04 | .10 |
| SEP. | | | | | | | | | | | |
| 10... | 1130 | <1.4 | 3.8 | 3.1 | 130 | <.4 | .6 | .5 | 7 | .03 | .11 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | SUSPENDED ARSENIC (AS) (UG/L) | DISSOLVED ARSENIC (AS) (UG/L) | TOTAL CADMIUM (CD) (UG/L) | SUSPENDED CADMIUM (CD) (UG/L) | DISSOLVED CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | SUSPENDED CHROMIUM (CR) (UG/L) | DISSOLVED CHROMIUM (CR) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | 1130 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| APR.<br>19... | 1130 | 2 | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY<br>14... | 1140 | 0 | -- | 1 | 1 | 1 | 0 | 10 | 10 | 0 |
| JULY<br>02... | 1000 | 3 | 3 | 0 | 1 | 1 | 0 | 10 | 10 | 0 |
| AUG.<br>28... | 1645 | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP.<br>10... | 1130 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |

| DATE | TOTAL COBALT (CO) (UG/L) | SUSPENDED COBALT (CO) (UG/L) | DISSOLVED COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) | SUSPENDED COPPER (CU) (UG/L) | DISSOLVED COPPER (CU) (UG/L) | DISSOLVED IRON (FE) (UG/L) | TOTAL LEAD (PB) (UG/L) | SUSPENDED LEAD (PB) (UG/L) | DISSOLVED LEAD (PB) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | 0 | -- | 1 | 30 | 20 | 10 | 250 | 5 | 4 | 1 |
| APR.<br>19... | -- | -- | -- | 20 | -- | -- | -- | 6 | -- | -- |
| MAY<br>14... | 0 | 0 | 1 | 0 | 0 | 10 | 310 | 14 | 12 | 2 |
| JULY<br>02... | 0 | 0 | 0 | 10 | 0 | 10 | 40 | 7 | 7 | 0 |
| AUG.<br>28... | -- | -- | -- | 20 | -- | -- | -- | 10 | -- | -- |
| SEP.<br>10... | 0 | 0 | 0 | 20 | 10 | 10 | 30 | 9 | 9 | 0 |

| DATE | SUSPENDED MANGANESE (MN) (UG/L) | DISSOLVED MANGANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | DISSOLVED MERCURY (HG) (UG/L) | TOTAL SELENIUM (SE) (UG/L) | SUSPENDED SELENIUM (SE) (UG/L) | DISSOLVED SELENIUM (SE) (UG/L) | TOTAL ZINC (ZN) (UG/L) | SUSPENDED ZINC (ZN) (UG/L) | DISSOLVED ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | -- | 190 | <.5 | <.5 | 2 | 0 | 2 | 60 | 30 | 30 |
| APR.<br>19... | -- | -- | <.5 | -- | -- | -- | -- | -- | -- | -- |
| MAY<br>14... | 50 | 30 | <.5 | <.5 | 0 | 0 | 0 | 340 | 320 | 20 |
| JULY<br>02... | 70 | 0 | <.5 | <.5 | 3 | 1 | 2 | 50 | 30 | 20 |
| AUG.<br>28... | -- | -- | <.5 | -- | -- | -- | -- | -- | -- | -- |
| SEP.<br>10... | 50 | 0 | <.5 | <.5 | 3 | 1 | 2 | 20 | 20 | 0 |

CONTINUED NEXT PAGE

## 01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

### CROSS-SECTION MEASUREMENTS

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C)

October 31, 1973 1015 to 1053 Hours

| Distance from left bank | 260 ft (79 m) | | 800 ft (244 m) | | 1320 ft (402 m) | | 1850 ft (564 m) | | 2380 ft (725 m) | |
|---|---|---|---|---|---|---|---|---|---|---|
| depth<br>ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 1 | 172 | 16.0 | 177 | 15.0 | 178 | 15.0 | 177 | 15.5 | 174 | 15.0 |
| 10 3 | 172 | 15.5 | 177 | 15.0 | 178 | 15.0 | 177 | 15.0 | 174 | 15.0 |
| middepth | 172 | 15.5 | 177 | 15.0 | 178 | 15.0 | 177 | 15.0 | 174 | 15.0 |
| 50 15 | 172 | 15.5 | 177 | 15.0 | 178 | 15.0 | 177 | 15.0 | 174 | 15.0 |

October 31, 1973 1402 to 1438 Hours

| Distance from left bank | 260 ft (79 m) | | 800 ft (244 m) | | 1320 ft (402 m) | | 1850 ft (564 m) | | 2380 ft (725 m) | |
|---|---|---|---|---|---|---|---|---|---|---|
| depth<br>ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 1 | 243 | 16.0 | 205 | 15.5 | 205 | 15.5 | 180 | 15.5 | 176 | 15.0 |
| 10 3 | 243 | 15.5 | 205 | 15.5 | 205 | 15.5 | 180 | 15.5 | 176 | 15.0 |
| middepth | 243 | 15.5 | 205 | 15.5 | 205 | 15.5 | 180 | 15.5 | 176 | 15.5 |
| 50 15 | 243 | 15.5 | 205 | 15.5 | 205 | 15.5 | 180 | 15.5 | 176 | 15.5 |

July 2, 1974 0931 to 0939 Hours

| Distance from left bank | 400 ft (122 m) | | 1200 ft (366 m) | | 2000 ft (610 m) | |
|---|---|---|---|---|---|---|
| depth<br>ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 2 0.6 | 190 | 18.5 | 190 | 18.5 | 190 | 18.0 |
| 25 8 | 190 | 18.5 | 190 | 18.5 | 190 | 18.0 |
| 50 15 | 190 | 18.0 | 190 | 18.0 | 190 | 18.0 |

September 10, 1974 1131 to 1139 Hours

| Distance from left bank | 400 ft (122 m) | | 1200 ft (366 m) | | 2000 ft (610 m) | |
|---|---|---|---|---|---|---|
| depth<br>ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 2 0.6 | 200 | - - | 100 | - - | 100 | - - |
| 25 8 | 200 | - - | 100 | - - | 100 | - - |
| 50 15 | 200 | - - | 100 | - - | 100 | - - |

## PHYTOPLANKTON ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPOSITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPOSITION |
|---|---|---|---|---|---|---|---|
| Aug. 7 1973 | 4,800 | *Oscillatoria* | 29 | May 14 1974 | 1,900 | *Asterionella* | 29 |
| | | *Ulothrix* | 25 | | | *Melosira* | 28 |
| | | *Anacystis* | 21 | | | *Ankistrodesmus* | 14 |
| | | | | | | *Cyclotella* | 12 |
| | | | | | | *Cymbella* | 5 |
| | | | | | | *Navicula* | 3 |
| | | | | | | *Nitzschia* | 2 |
| | | | | | | *Gomphonema* | 2 |
| | | | | | | *Cryptomonas* | 2 |
| | | | | | | *Selenastrum* | 2 |
| | | | | | | *Chlamydomonas* | 2 |
| July 2 1974 | 3,600 | *Pediastrum* | 27 | Aug. 28 1974 | 8,300 | *Anacystis* *Incerta* | 46 |
| | | *Anacystis* | 16 | | | *Lyngbya* | 14 |
| | | *Cyclotella* | 14 | | | *Pediastrum* | 8 |
| | | *Crucigenia* | 9 | | | *Anacystis* | 7 |
| | | *Fragilaria* | 8 | | | *Coelastrum* | 7 |
| | | *Scenedesmus* | 7 | | | *Cyclotella* | 6 |
| | | *Melosira* | 7 | | | *Scenedesmus* | 5 |
| | | *Navicula* | 5 | | | *Crucigenia* | 2 |
| | | *Stephanodiscus* | 2 | | | *Navicula* | 1 |
| | | *Cymbella* | 1 | | | *Actinastrum* | 1 |
| | | *Asterionella* | 1 | | | *Selenastrum* | <1 |
| | | *Nitzschia* | 1 | | | *Oocystis* | <1 |
| | | *Gomphonema* | 1 | | | | |
| | | *Cocconeis* | 1 | | | | |
| | | *Tetraedron* | 1 | | | | |
| | | *Closteriopsis* | 1 | | | | |
| | | *Ankistrodesmus* | 1 | | | | |
| Sept. 10 1974 | 8,200 | *Oscillatoria* | 56 | | | | |
| | | *Anacystis* | 20 | | | | |
| | | *Melosira* | 8 | | | | |
| | | *Selenastrum* | 5 | | | | |
| | | *Tetrastrum* | 3 | | | | |
| | | *Scenedesmus* | 3 | | | | |
| | | *Nitzschia* | 2 | | | | |
| | | *Cyclotella* | 2 | | | | |
| | | *Navicula* | 1 | | | | |

## PERIPHYTON ANALYSES, SEPTEMBER 1973 TO OCTOBER 1974

| DATE | UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M | UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M | PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M | PERIPHYTON BIOMASS ASH WEIGHT G/SQ M |
|---|---|---|---|---|
| Sept. 9 - Oct. 31 | -- | -- | -- | 1.6 |
| Nov. 6 - Dec. 27 | -- | -- | 3.1 | 1.5 |
| Dec. 27 - Jan. 29 | -- | -- | 1.7 | .80 |
| May 14 - June 18 | -- | -- | 15 | -- |
| June 18 - July 16 | 70 | 29 | -- | -- |
| July 16 - Aug. 14 | 94 | 37 | 28 | 21 |
| Aug. 14 - Sept. 9 | -- | -- | 85 | 18 |
| Sept. 9 - Oct. 10 | 22 | 8.1 | 38 | 28 |

CONTINUED NEXT PAGE

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT BETWEEN 0800 AND 0830)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20.5 | 15.0 | 7.0 | --- | 1.5 | 1.0 | 3.5 | 12.0 | 17.0 | 20.5 | 24.0 | --- |
| 2 | 20.5 | 14.0 | --- | 1.5 | 1.5 | 1.0 | 4.0 | 12.0 | --- | 20.5 | 24.0 | 24.5 |
| 3 | 20.5 | 14.0 | 6.5 | 1.5 | --- | --- | 4.0 | 13.0 | 18.0 | 21.0 | 24.5 | 24.0 |
| 4 | 20.0 | --- | 6.5 | 1.5 | 1.0 | 1.5 | 4.5 | 13.5 | 16.5 | 21.0 | --- | 23.5 |
| 5 | 20.0 | 14.0 | 6.5 | 1.5 | 0.5 | 2.0 | 5.0 | --- | 16.5 | 22.0 | 24.0 | 23.0 |
| 6 | 20.0 | 13.5 | 6.5 | --- | 0.5 | 2.0 | 5.0 | 13.5 | 16.5 | 23.0 | 24.0 | 23.0 |
| 7 | --- | 12.0 | 6.5 | 1.0 | 0.5 | 3.0 | --- | 13.5 | 16.5 | --- | 24.0 | 22.0 |
| 8 | 19.5 | 12.0 | 6.5 | 1.0 | 1.0 | 3.5 | 7.0 | 13.5 | 17.0 | 21.5 | 24.5 | --- |
| 9 | 19.5 | 11.5 | --- | 1.0 | 0.5 | 4.0 | 6.5 | 13.5 | --- | 22.0 | 24.5 | 21.5 |
| 10 | 19.0 | 11.5 | 6.0 | 1.0 | --- | --- | 6.5 | 13.5 | 18.0 | 22.0 | 24.5 | 21.5 |
| 11 | 19.0 | --- | 5.5 | 0.5 | 0.5 | 4.0 | 6.5 | 13.5 | 18.5 | 22.0 | --- | 21.0 |
| 12 | 19.0 | 10.5 | 5.5 | 0.5 | 0.5 | 4.5 | 6.5 | --- | 18.5 | 22.0 | 24.5 | 21.5 |
| 13 | 19.0 | 10.5 | 5.0 | --- | 0.5 | 4.0 | 6.5 | 13.5 | 19.0 | 23.0 | 24.5 | 21.0 |
| 14 | --- | 10.0 | 5.0 | 0.5 | 1.0 | 4.0 | --- | 13.5 | 19.0 | --- | 24.5 | 21.5 |
| 15 | 18.5 | 10.0 | 5.0 | 0.5 | 0.5 | 4.0 | 6.5 | 13.5 | 19.0 | 23.5 | 24.5 | --- |
| 16 | 18.5 | 10.5 | --- | 0.5 | 0.5 | 4.0 | 6.5 | 13.5 | --- | 24.0 | 24.5 | 21.0 |
| 17 | 18.5 | 10.0 | 4.0 | 0.5 | --- | --- | 7.0 | 14.0 | 19.5 | 23.5 | 24.5 | 21.0 |
| 18 | 18.0 | --- | 4.0 | 0.5 | 0.5 | 4.0 | 8.5 | 14.5 | 20.0 | 23.5 | --- | 21.0 |
| 19 | 18.0 | 9.5 | 3.5 | 0.5 | 0.5 | 3.5 | 9.0 | --- | 20.0 | 24.5 | 24.5 | 21.0 |
| 20 | 18.0 | 9.5 | 3.5 | --- | 0.5 | 3.5 | 9.0 | 15.5 | 20.5 | 24.5 | 24.5 | 21.0 |
| 21 | --- | 9.0 | 2.0 | 0.5 | 0.5 | 3.5 | --- | 15.5 | 21.0 | --- | 25.0 | 21.0 |
| 22 | 17.0 | --- | 1.0 | 0.5 | 1.0 | 4.0 | 10.0 | 15.5 | 21.5 | 23.5 | 25.0 | --- |
| 23 | 16.5 | 8.5 | --- | 0.5 | 0.5 | 3.5 | 10.5 | 16.0 | --- | 24.0 | 25.0 | 19.5 |
| 24 | 16.0 | 8.5 | 1.0 | 0.5 | --- | --- | 11.0 | 16.0 | 21.0 | 23.5 | 25.0 | 19.5 |
| 25 | 15.5 | --- | 1.0 | 0.5 | 0.5 | 3.5 | 11.0 | 16.0 | 20.5 | 23.5 | --- | 19.0 |
| 26 | 15.5 | 8.0 | 1.0 | 0.5 | 0.5 | 4.0 | 11.0 | --- | 20.5 | 23.0 | 25.0 | 19.0 |
| 27 | 15.5 | 8.5 | 1.0 | --- | 1.0 | 4.0 | 11.0 | 16.0 | 20.5 | 24.0 | 24.5 | 19.0 |
| 28 | --- | 8.0 | 1.0 | 1.0 | 1.0 | 4.0 | --- | 16.5 | 20.0 | --- | 25.0 | 19.0 |
| 29 | 15.5 | 8.0 | 1.0 | 1.0 | --- | 4.0 | 11.0 | 16.5 | 20.5 | 23.5 | 24.5 | --- |
| 30 | 15.0 | 8.0 | --- | 1.0 | --- | 3.5 | 11.5 | 17.0 | --- | 23.5 | 25.0 | 18.5 |
| 31 | 15.0 | --- | 1.5 | 1.0 | --- | --- | --- | 17.0 | --- | 24.0 | 24.5 | --- |
| AVERAGE | 18.0 | 10.5 | 4.0 | 1.0 | 1.0 | 3.5 | 7.5 | 14.5 | 19.0 | 23.0 | 24.5 | 21.0 |

### SUSPENDED-SEDIMENT MEASUREMENTS
### WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | SUS-PENDED SEDI-MENT (MG/L) | SUS. SED. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|
| OCT. | | | |
| 31... | 1130 | 43 | 95 |
| MAY | | | |
| 14... | 1140 | 14 | -- |
| JULY | | | |
| 02... | 1000 | 22 | -- |
| SEP. | | | |
| 10... | 1130 | 11 | 95 |

## 01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, at gaging station 700 ft (213 m) downstream from Red Oak Mill dam and 4.5 mi (7.2 km) northeast of Wappingers Falls.

DRAINAGE AREA.--181 mi$^2$ (469 km$^2$).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1964, August 1965 to September 1974.
Water temperatures: October 1963 to September 1964.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | 1230 | 29 | 3.4 | 110 | 30 | -- | 39 | -- | 12 | -- | 11 |
| NOV. 20... | 1330 | 35 | 2.3 | 60 | 20 | -- | 39 | -- | 13 | -- | 11 |
| DEC. 19... | 1400 | E200 | 5.9 | 150 | 30 | -- | 31 | -- | 8.5 | -- | 8.1 |
| JAN. 23... | 1345 | 436 | 5.6 | 640 | 60 | -- | 24 | -- | 7.8 | -- | 10 |
| FEB. 21... | 1430 | 331 | 4.6 | 360 | 30 | -- | 26 | -- | 7.4 | -- | 6.4 |
| MAR. 20... | 1315 | 590 | 4.6 | 230 | 20 | -- | 23 | -- | 6.6 | -- | 5.9 |
| APR. 16... | 1430 | 883 | 3.4 | 340 | 20 | 30 | -- | 6.8 | -- | 5.4 | -- |
| MAY 15... | 0820 | 480 | 4.4 | 350 | 60 | 23 | -- | 6.0 | -- | 6.1 | -- |
| JUNE 25... | 1900 | 124 | 6.1 | 470 | 80 | 31 | -- | 9.2 | -- | 9.0 | -- |
| JULY 23... | 1800 | 46 | -- | 330 | 80 | 37 | -- | 14 | -- | 11 | -- |
| AUG. 14... | 1610 | 28 | -- | 150 | 100 | 35 | -- | 12 | -- | 13 | -- |
| SEP. 18... | 1130 | 91 | -- | 320 | 100 | 34 | -- | 9.9 | -- | 8.0 | -- |

| DATE | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | -- | 1.3 | 158 | 0 | 130 | 23 | 18 | -- | .2 | .53 | .01 |
| NOV. 20... | -- | 1.4 | 147 | 0 | 121 | 27 | 17 | -- | .2 | .45 | .03 |
| DEC. 19... | -- | 1.6 | 100 | 0 | 82 | 31 | 13 | -- | .1 | .92 | .00 |
| JAN. 23... | -- | 1.0 | 75 | 0 | 62 | 24 | 17 | -- | .2 | 1.1 | .01 |
| FEB. 21... | -- | 1.1 | 83 | 0 | 68 | 22 | 13 | -- | .0 | 1.2 | .01 |
| MAR. 20... | -- | 1.1 | 75 | 0 | 62 | 21 | 11 | -- | .0 | .84 | .00 |
| APR. 16... | .9 | -- | 78 | 0 | 64 | 19 | 9.5 | .2 | -- | .62 | .01 |
| MAY 15... | .9 | -- | 80 | 0 | 66 | 18 | 9.0 | .2 | -- | .38 | .02 |
| JUNE 25... | 1.0 | -- | 115 | 0 | 94 | 21 | 15 | .1 | -- | .70 | .01 |
| JULY 23... | 1.0 | -- | 127 | 0 | 104 | 23 | 18 | -- | -- | .37 | .01 |
| AUG. 14... | 1.1 | -- | 141 | 0 | 116 | 25 | 21 | -- | -- | .43 | .02 |
| SEP. 18... | 1.0 | -- | 130 | 0 | 107 | 19 | 13 | -- | -- | .26 | .00 |

E Estimated value.

CONTINUED NEXT PAGE

### 01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | .01 | .18 | .19 | .73 | .01 | -- | .00 | 186 | 210 | 184 |
| NOV. 20... | .04 | .05 | .09 | .58 | .00 | -- | .00 | 183 | 206 | 163 |
| DEC. 19... | .06 | .05 | .11 | 1.0 | .01 | -- | .01 | 149 | 165 | 150 |
| JAN. 23... | .05 | .27 | .32 | 1.4 | .03 | -- | .02 | 127 | 150 | 127 |
| FEB. 21... | .04 | .15 | .19 | 1.4 | .02 | -- | .00 | 127 | 153 | 115 |
| MAR. 20... | .07 | .08 | .15 | .99 | .02 | -- | .00 | 110 | 130 | 105 |
| APR. 16... | .03 | .12 | .15 | .78 | .02 | .00 | -- | -- | 120 | 110 |
| MAY 15... | .03 | .37 | .40 | .80 | .02 | .01 | -- | -- | 142 | 84 |
| JUNE 25... | .01 | .33 | .34 | 1.1 | .05 | .03 | -- | -- | 192 | 151 |
| JULY 23... | .20 | .00 | .20 | .58 | .02 | .01 | -- | -- | 201 | 143 |
| AUG. 14... | .21 | .07 | .28 | .73 | .03 | .01 | -- | -- | 277 | 214 |
| SEP. 18... | .11 | .23 | .34 | .60 | .03 | .00 | -- | -- | 177 | 150 |

| DATE | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 25... | 2 | 0 | 150 | 17 | 330 | 7.6 | 13.5 | -- | -- | 8.7 |
| NOV. 20... | 6 | 0 | 149 | 28 | 370 | 7.8 | 8.0 | -- | -- | 9.6 |
| DEC. 19... | 5 | 4 | 103 | 21 | 256 | 6.8 | .0 | -- | -- | -- |
| JAN. 23... | 10 | 5 | 88 | 26 | 290 | 6.8 | .0 | -- | -- | 12.2 |
| FEB. 21... | 7 | 5 | 92 | 24 | 226 | 6.8 | 3.0 | -- | -- | 12.2 |
| MAR. 20... | 8 | 6 | 83 | 21 | 203 | 6.6 | 5.0 | -- | -- | 12.0 |
| APR. 16... | 4 | 4 | -- | -- | 199 | 7.7 | 10.0 | -- | -- | 12.2 |
| MAY 15... | 10 | 4 | -- | -- | 240 | 7.7 | 14.0 | -- | -- | 9.5 |
| JUNE 25... | 11 | 8 | -- | -- | 220 | 7.8 | 18.0 | -- | -- | 8.6 |
| JULY 23... | 5 | 5 | -- | -- | 328 | 8.2 | 22.5 | 2 | 4 | 8.4 |
| AUG. 14... | 3 | 0 | -- | -- | 340 | 8.1 | 24.0 | 2 | 3 | 8.8 |
| SEP. 18... | 6 | 4 | -- | -- | 330 | 8.0 | 17.5 | 1 | 3 | 9.6 |

### 01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | 83 | 6 | 490 | B16 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 20... | 81 | 4 | 880 | 82 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 19... | -- | 7 | 440 | 120 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 23... | -- | 7 | 660 | 20 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 21... | 88 | 9 | 140 | B16 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 20... | 99 | 6 | B28 | B2 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 16... | 109 | 8 | B40 | B11 | -- | .0 | <1 | 10 | 1 | <.5 |
| MAY | | | | | | | | | | |
| 15... | 95 | 11 | 1500 | 330 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 25... | 90 | 12 | B13000 | B5700 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 23... | 97 | 7 | 630 | B55 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 14... | 103 | 7 | -- | -- | 2.8 | -- | 0 | 0 | 1 | <.5 |
| SEP. | | | | | | | | | | |
| 18... | 100 | 9 | -- | -- | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01372550 HUDSON RIVER NEAR CHELSEA, N.Y.

**LOCATION.**--Lat 41°34'20", long 73°57'45", Dutchess County, approximately 0.2 mi (0.3 km) southeast of Danskammer Point on line between Danskammer Point and Chelsea Pumping Station, 1.3 mi (2.1 km) north of Chelsea and approximately 0.8 mi (1.3 km) downstream from Wappinger Creek.

**DRAINAGE AREA.**--11,995 mi² (31,067 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 03... | 0835 | .4 | 800 | 80 | -- | 22 | -- | 6.9 | -- | 22 | -- | 2.2 |
| 31... | 0810 | .2 | 590 | 90 | -- | 24 | -- | 8.6 | -- | 33 | -- | 2.9 |
| NOV. | | | | | | | | | | | | |
| 14... | 0830 | .3 | 430 | 30 | -- | 23 | -- | 5.9 | -- | 15 | -- | 1.9 |
| 28... | 0915 | .5 | 720 | 40 | -- | 25 | -- | 5.7 | -- | 12 | -- | 1.7 |
| DEC. | | | | | | | | | | | | |
| 05... | 0845 | .6 | 1000 | 60 | -- | 25 | -- | 5.5 | -- | 12 | -- | 1.8 |
| 19... | 0845 | 4.0 | 230 | 20 | -- | 21 | -- | 4.3 | -- | 6.3 | -- | 1.8 |
| JAN. | | | | | | | | | | | | |
| 09... | 0910 | 4.4 | 2600 | 90 | -- | 19 | -- | 3.4 | -- | 5.0 | -- | 1.3 |
| 23... | 0815 | 4.9 | 730 | 40 | -- | 21 | -- | 4.7 | -- | 7.0 | -- | 1.1 |
| FEB. | | | | | | | | | | | | |
| 06... | 0815 | 4.4 | 460 | 170 | -- | 21 | -- | 4.2 | -- | 6.9 | -- | 1.4 |
| 20... | 0815 | 4.3 | 1000 | 50 | -- | 22 | -- | 4.3 | -- | 6.0 | -- | 1.2 |
| MAR. | | | | | | | | | | | | |
| 06... | 0900 | 4.4 | 2200 | 90 | -- | 20 | -- | 3.8 | -- | 6.6 | -- | 1.3 |
| 20... | 0840 | 4.6 | 1100 | 50 | -- | 21 | -- | 4.3 | -- | 5.6 | -- | 1.4 |
| APR. | | | | | | | | | | | | |
| 03... | 0840 | 4.4 | 1300 | 70 | -- | 20 | -- | 4.1 | -- | 7.0 | -- | 1.2 |
| 17... | 0840 | 3.7 | 600 | 40 | -- | 19 | -- | 3.9 | -- | 5.4 | -- | 1.2 |
| MAY | | | | | | | | | | | | |
| 01... | 0845 | 3.3 | 1700 | 70 | 23 | -- | 3.8 | -- | 4.8 | -- | 1.1 | -- |
| 29... | 0855 | 4.0 | 5900 | 270 | 19 | -- | 5.2 | -- | 5.0 | -- | 1.4 | -- |
| JUNE | | | | | | | | | | | | |
| 12... | 0830 | 2.5 | 730 | 50 | 17 | -- | 3.6 | -- | 5.0 | -- | .8 | -- |
| 26... | 0855 | .2 | 1400 | 70 | 18 | -- | 4.0 | -- | 5.5 | -- | 1.0 | -- |
| JULY | | | | | | | | | | | | |
| 10... | 0830 | -- | 350 | 20 | 24 | -- | 4.6 | -- | 8.5 | -- | 1.1 | -- |
| 24... | 0820 | -- | 500 | 50 | 24 | -- | 5.5 | -- | 15 | -- | 1.4 | -- |
| AUG. | | | | | | | | | | | | |
| 07... | 0835 | -- | 430 | 70 | 26 | -- | 4.7 | -- | 7.7 | -- | 1.2 | -- |
| 21... | 0830 | -- | 750 | 110 | 35 | -- | 5.3 | -- | 9.3 | -- | 1.5 | -- |
| SEP. | | | | | | | | | | | | |
| 04... | 0835 | -- | 610 | 40 | 25 | -- | 5.0 | -- | 7.0 | -- | 1.4 | -- |
| 18... | 0900 | -- | 400 | 50 | 24 | -- | 5.2 | -- | 7.7 | -- | 1.3 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 03... | 73 | 0 | 60 | 23 | 38 | -- | .4 | .62 | .00 | .11 | .16 |
| 31... | 70 | 0 | 57 | 28 | 63 | -- | .3 | .69 | .00 | .07 | -- |
| NOV. | | | | | | | | | | | |
| 14... | 74 | 0 | 61 | 25 | 22 | -- | .3 | .75 | .00 | .10 | .05 |
| 28... | 72 | 0 | 59 | 27 | 17 | -- | .3 | .90 | .00 | .01 | .17 |
| DEC. | | | | | | | | | | | |
| 05... | 71 | 0 | 58 | 27 | 19 | -- | .4 | .93 | .00 | .02 | .19 |
| 19... | 57 | 0 | 47 | 23 | 10 | -- | .2 | .91 | .00 | .03 | .36 |
| JAN. | | | | | | | | | | | |
| 09... | 54 | 0 | 44 | 17 | 8.2 | -- | .3 | .77 | .03 | .16 | .28 |
| 23... | 58 | 0 | 48 | 22 | 11 | -- | .1 | .82 | .07 | .09 | .23 |
| FEB. | | | | | | | | | | | |
| 06... | 56 | 0 | 46 | 24 | 13 | -- | .2 | .84 | .10 | .12 | .34 |
| 20... | 62 | 0 | 51 | 20 | 11 | -- | .1 | .92 | .03 | .16 | .29 |
| MAR. | | | | | | | | | | | |
| 06... | 50 | 0 | 41 | 20 | 12 | -- | .1 | .75 | .06 | .29 | -- |
| 20... | 61 | 0 | 50 | 19 | 9.4 | -- | .0 | .80 | .07 | .25 | .11 |
| APR. | | | | | | | | | | | |
| 03... | 57 | 0 | 47 | 20 | 12 | -- | .2 | .77 | .08 | .15 | .20 |
| 17... | 52 | 0 | 43 | 18 | 9.5 | -- | .1 | .64 | .03 | .01 | .22 |
| MAY | | | | | | | | | | | |
| 01... | 51 | 0 | 42 | 17 | 7.5 | .2 | -- | .61 | .04 | .18 | .15 |
| 29... | 53 | 0 | 43 | 14 | 7.4 | .1 | -- | .60 | .01 | .01 | -- |
| JUNE | | | | | | | | | | | |
| 12... | 48 | 0 | 39 | 14 | 7.2 | .2 | -- | .63 | .00 | .03 | .23 |
| 26... | 54 | 0 | 44 | 18 | 8.2 | .2 | -- | .60 | .01 | .00 | .55 |
| JULY | | | | | | | | | | | |
| 10... | 66 | 0 | 54 | 22 | 12 | -- | -- | .65 | .01 | .12 | .21 |
| 24... | 66 | 0 | 54 | 25 | 22 | -- | -- | .65 | .01 | .16 | .11 |
| AUG. | | | | | | | | | | | |
| 07... | 81 | -- | 66 | 22 | 12 | -- | -- | .82 | .00 | .12 | .03 |
| 21... | 71 | -- | 58 | 20 | 13 | -- | -- | .77 | .00 | .07 | .19 |
| SEP. | | | | | | | | | | | |
| 04... | 73 | -- | 60 | 19 | 11 | -- | -- | .59 | .00 | .09 | .14 |
| 18... | 68 | -- | 56 | 17 | 12 | -- | -- | .49 | .00 | .13 | .32 |

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 03... | .27 | .89 | .07 | -- | .05 | 151 | 181 | 118 | 18 | 6 | 83 |
| 31... | -- | -- | .07 | -- | .04 | 195 | 239 | 217 | 11 | 7 | 95 |
| NOV. | | | | | | | | | | | |
| 14... | .15 | .90 | .06 | -- | .04 | 130 | 167 | 129 | -- | -- | 82 |
| 26... | .18 | 1.1 | .08 | -- | .03 | 125 | 137 | 115 | 14 | 11 | 86 |
| DEC. | | | | | | | | | | | |
| 05... | .21 | 1.1 | .08 | -- | .03 | 126 | 149 | 135 | 26 | 24 | 65 |
| 19... | .39 | 1.3 | .09 | -- | .04 | 99 | 138 | 118 | 45 | 39 | 70 |
| JAN. | | | | | | | | | | | |
| 09... | .44 | 1.2 | .15 | -- | .08 | 85 | 181 | 145 | 74 | 72 | 61 |
| 23... | .32 | 1.2 | .07 | -- | .03 | 100 | 110 | 96 | 16 | 10 | 72 |
| FEB. | | | | | | | | | | | |
| 06... | .46 | 1.4 | .08 | -- | .04 | 103 | 150 | -- | 34 | 30 | 70 |
| 20... | .45 | 1.3 | .06 | -- | .03 | 100 | 143 | 108 | 27 | 25 | 73 |
| MAR. | | | | | | | | | | | |
| 06... | .21 | 1.0 | .09 | -- | .04 | 93 | 151 | 130 | 58 | 48 | 66 |
| 20... | .36 | 1.2 | .10 | -- | .04 | 95 | 140 | 117 | 29 | 28 | 70 |
| APR. | | | | | | | | | | | |
| 03... | .35 | 1.2 | .07 | -- | .04 | 97 | 140 | 108 | 36 | 37 | 67 |
| 17... | .23 | .90 | .05 | -- | .03 | 85 | 128 | 107 | 20 | 14 | 64 |
| MAY | | | | | | | | | | | |
| 01... | .33 | .98 | .08 | .04 | -- | -- | 141 | 120 | 49 | 45 | -- |
| 29... | -- | -- | .12 | .03 | -- | -- | 169 | 140 | 93 | 72 | -- |
| JUNE | | | | | | | | | | | |
| 12... | .26 | .89 | .07 | .03 | -- | -- | 141 | 102 | 47 | -- | -- |
| 26... | .55 | 1.2 | .25 | .06 | -- | -- | 144 | 119 | 37 | 32 | -- |
| JULY | | | | | | | | | | | |
| 10... | .33 | .99 | .06 | .03 | -- | -- | 153 | 125 | 22 | 19 | -- |
| 24... | .27 | .93 | .06 | .04 | -- | -- | 169 | 118 | 11 | 8 | -- |
| AUG. | | | | | | | | | | | |
| 07... | .15 | .97 | .08 | .05 | -- | -- | 183 | 111 | 18 | 17 | -- |
| 21... | .28 | 1.0 | .08 | .06 | -- | -- | 330 | 271 | 16 | 12 | -- |
| SEP. | | | | | | | | | | | |
| 04... | .23 | .82 | .07 | .04 | -- | -- | 135 | 105 | 9 | 6 | -- |
| 18... | .45 | .94 | .08 | .04 | -- | -- | 133 | 103 | 20 | 18 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 03... | 23 | 293 | 7.4 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| 31... | 38 | 394 | 7.5 | -- | -- | 12 | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 14... | 21 | 255 | 7.5 | -- | -- | 12 | .0 | 3 | 20 | 4 | <.5 |
| 28... | 27 | 234 | 7.4 | -- | -- | 12 | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 05... | 27 | 234 | 7.2 | -- | -- | 12 | .0 | -- | -- | -- | -- |
| 19... | 23 | 188 | 7.2 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 09... | 17 | 156 | 7.4 | -- | -- | 17 | .0 | -- | -- | -- | -- |
| 23... | 24 | 188 | 7.1 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 06... | 24 | 189 | 7.3 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| 20... | 22 | 183 | 7.2 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 06... | 25 | 175 | 7.2 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| 20... | 20 | 180 | 7.4 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 03... | 20 | 181 | 7.3 | -- | -- | 12 | .0 | -- | -- | -- | -- |
| 17... | 21 | 155 | 7.2 | -- | -- | 10 | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01... | -- | 155 | 7.3 | -- | -- | 15 | .0 | -- | -- | -- | -- |
| 29... | -- | 155 | 7.2 | -- | -- | 14 | .0 | 1 | 270 | 88 | .8 |
| JUNE | | | | | | | | | | | |
| 12... | -- | 155 | 7.3 | -- | -- | 10 | .0 | -- | -- | -- | -- |
| 26... | -- | 165 | 7.0 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 10... | -- | 202 | 7.3 | 6 | 7 | 11 | -- | -- | -- | -- | -- |
| 24... | -- | 240 | 7.3 | 2 | 7 | 12 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 07... | -- | 228 | -- | 3 | 8 | 10 | -- | -- | -- | -- | -- |
| 21... | -- | 231 | -- | 7 | 6 | 13 | -- | 4 | 40 | 8 | <.5 |
| SEP. | | | | | | | | | | | |
| 04... | -- | 212 | -- | 3 | 9 | 11 | -- | -- | -- | -- | -- |
| 18... | -- | 214 | -- | 3 | 8 | 11 | -- | -- | -- | -- | -- |

## 01372575 HUDSON RIVER AT BEACON, N.Y.

LOCATION.--Lat 41°30'18", long 73°59'21" Dutchess County, at point of land in Beacon, 1.0 mi (1.6 km) downstream from Beacon-Newburgh Bridge and 0.8 mi (1.3 km) upstream from north end of Denning Point.

DRAINAGE AREA.--12,011 mi² (31,100 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 0855 | 4.0 | 630 | 50 | -- | 25 | -- | 19 | -- | 100 | -- | 5.9 |
| NOV. | | | | | | | | | | | | |
| 28... | 0910 | .5 | 1600 | 80 | -- | 26 | -- | 6.3 | -- | 18 | -- | 2.1 |
| JAN. | | | | | | | | | | | | |
| 16... | 0915 | 4.4 | 1900 | 70 | -- | 19 | -- | 3.7 | -- | 7.8 | -- | 1.1 |
| 30... | 0935 | 5.0 | 710 | 60 | -- | 24 | -- | 4.8 | -- | 9.5 | -- | 1.1 |
| MAR. | | | | | | | | | | | | |
| 27... | 0905 | 4.7 | 870 | 50 | -- | 20 | -- | 4.2 | -- | 6.3 | -- | 1.1 |
| APR. | | | | | | | | | | | | |
| 24... | 0905 | 4.0 | 1100 | 60 | -- | 21 | -- | 4.6 | -- | 8.8 | -- | 1.4 |
| MAY | | | | | | | | | | | | |
| 23... | 0910 | 3.9 | 1600 | 80 | 20 | -- | 4.0 | -- | 6.7 | -- | 1.1 | -- |
| JULY | | | | | | | | | | | | |
| 10... | 1100 | -- | 560 | 50 | 23 | -- | 4.6 | -- | 9.0 | -- | 1.1 | -- |
| 31... | 1200 | -- | 240 | 40 | 26 | -- | 7.3 | -- | 26 | -- | 1.8 | -- |
| AUG. | | | | | | | | | | | | |
| 14... | 1000 | -- | 400 | 80 | 26 | -- | 6.8 | -- | 25 | -- | 1.3 | -- |
| SEP. | | | | | | | | | | | | |
| 12... | 0900 | -- | 430 | 30 | 25 | -- | 6.4 | -- | 9.8 | -- | 1.5 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 76 | 0 | 62 | 44 | 190 | -- | .3 | .69 | .00 | .00 | .24 |
| NOV. | | | | | | | | | | | |
| 28... | 74 | 0 | 61 | 28 | 26 | -- | .4 | .90 | .00 | .01 | .38 |
| JAN. | | | | | | | | | | | |
| 16... | 56 | 0 | 46 | 20 | 12 | -- | .1 | .98 | .01 | .02 | .41 |
| 30... | 58 | 0 | 48 | 21 | 16 | -- | .2 | .81 | .03 | .25 | .30 |
| MAR. | | | | | | | | | | | |
| 27... | 56 | 0 | 46 | 18 | 11 | -- | .1 | .72 | .06 | .23 | .12 |
| APR. | | | | | | | | | | | |
| 24... | 57 | 0 | 47 | 19 | 12 | -- | .2 | .64 | .08 | .11 | .28 |
| MAY | | | | | | | | | | | |
| 23... | 61 | 0 | 50 | 16 | 18 | .2 | -- | .64 | .01 | .00 | 1.7 |
| JULY | | | | | | | | | | | |
| 10... | 67 | 0 | 55 | 21 | 15 | -- | -- | .58 | .01 | .17 | .20 |
| 31... | 69 | 0 | 57 | 28 | 51 | -- | -- | .61 | .02 | .11 | .27 |
| AUG. | | | | | | | | | | | |
| 14... | 81 | -- | 66 | 24 | 32 | -- | -- | .67 | .01 | .16 | .22 |
| SEP. | | | | | | | | | | | |
| 12... | 83 | -- | 68 | 22 | 18 | -- | -- | .52 | .08 | .15 | .18 |

01372575 HUDSON RIVER AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | .24 | .94 | .10 | -- | .05 | 426 | 584 | 481 | 35 | 24 | 140 |
| NOV. | | | | | | | | | | | |
| 28... | .39 | 1.3 | .12 | -- | .04 | 144 | 188 | 165 | 64 | 38 | 91 |
| JAN. | | | | | | | | | | | |
| 16... | .43 | 1.4 | .10 | -- | .08 | 96 | 163 | 128 | 42 | 36 | 63 |
| 30... | .55 | 1.4 | .06 | -- | .03 | 110 | 122 | 103 | 28 | 23 | 80 |
| MAR. | | | | | | | | | | | |
| 27... | .35 | 1.1 | .07 | -- | .03 | 93 | 130 | 98 | 24 | 23 | 67 |
| APR. | | | | | | | | | | | |
| 24... | .39 | 1.1 | .09 | -- | .05 | 99 | 165 | 144 | 34 | 30 | 71 |
| MAY | | | | | | | | | | | |
| 23... | 1.7 | 2.4 | .11 | .04 | -- | -- | 158 | 114 | 54 | 40 | -- |
| JULY | | | | | | | | | | | |
| 10... | .37 | .96 | .08 | .03 | -- | -- | 152 | 109 | 16 | 14 | -- |
| 31... | .38 | 1.0 | .06 | .04 | -- | -- | 213 | 166 | 12 | 10 | -- |
| AUG. | | | | | | | | | | | |
| 14... | .38 | 1.1 | .06 | .05 | -- | -- | 231 | 148 | 3 | 0 | -- |
| SEP. | | | | | | | | | | | |
| 12... | .33 | .85 | .08 | .05 | -- | -- | 170 | 126 | 8 | 8 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 78 | 820 | 7.5 | -- | -- | 13 | .0 | 0 | 10 | 9 | <.5 |
| NOV. | | | | | | | | | | | |
| 28... | 30 | 268 | 7.4 | -- | -- | 44 | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 16... | 17 | 179 | 7.2 | -- | -- | 13 | .0 | -- | -- | -- | -- |
| 30... | 32 | 196 | 7.3 | -- | -- | 9 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 27... | 21 | 170 | 7.4 | -- | -- | 10 | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 24... | 25 | 184 | 7.3 | -- | -- | 5 | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 23... | -- | 171 | 7.3 | -- | -- | 22 | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 10... | -- | 202 | 7.4 | 7 | 8 | 18 | -- | -- | -- | -- | -- |
| 31... | -- | 385 | 7.6 | 4 | 5 | 9 | -- | <1 | 10 | 170 | <.5 |
| AUG. | | | | | | | | | | | |
| 14... | -- | 280 | -- | 2 | 6 | 16 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 12... | -- | 230 | -- | 2 | 7 | 13 | -- | 1 | 10 | 5 | <.5 |

## 01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22, long 73°48'25", Dutchess County, temperature recorder at gaging station at Hopewell Junction 400 ft (122 m) upstream from bridge on State Highway 376, 500 ft (152 m) upstream from small tributary, and 0.6 mi (1.0 km) south of State Highway 82.

DRAINAGE AREA.--57.3 mi² (148 km²).

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum 24.5°C June 10, 11; minimum, freezing point on several days during January and February.

Period of record:
Water temperatures: Maximum, 27°C July 13, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Clock stopped Dec. 24-28, range 2.5°C to 4.5°C, Jan. 12, 13, range 0.5°C to 1.0°C, Sept. 5-20, range 14.5°C to 21.0°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 14.5 | 13.5 | 9.5 | 9.0 | 7.0 | 6.0 | 3.0 | 3.0 | 3.0 | 1.5 | 5.0 | 4.0 |
| 2 | 14.5 | 13.5 | 9.5 | 8.0 | 6.0 | 5.0 | 3.0 | 2.0 | 1.5 | 0.5 | 5.0 | 4.5 |
| 3 | 16.5 | 14.5 | 9.0 | 8.5 | 5.0 | 4.0 | 2.0 | 2.0 | 0.5 | 0.5 | 5.0 | 4.5 |
| 4 | 16.5 | 15.5 | 8.5 | 8.0 | 5.5 | 4.5 | 2.0 | 1.5 | 0.5 | 0.0 | 6.0 | 5.0 |
| 5 | 18.0 | 15.5 | 8.0 | 6.5 | 8.5 | 5.5 | 2.0 | 1.0 | 0.0 | 0.0 | 8.0 | 6.0 |
| 6 | 15.5 | 13.5 | 6.5 | 5.0 | 9.0 | 8.5 | 1.5 | 1.0 | 0.0 | 0.0 | 8.0 | 6.5 |
| 7 | 14.0 | 13.0 | 5.0 | 5.0 | 8.5 | 6.0 | 1.5 | 1.5 | 0.0 | 0.0 | 8.0 | 7.0 |
| 8 | 13.0 | 12.0 | 5.0 | 4.5 | 6.0 | 5.0 | 1.5 | 1.0 | 0.0 | 0.0 | 8.0 | 6.0 |
| 9 | 13.0 | 13.0 | 5.0 | 4.5 | 6.0 | 5.0 | 1.0 | 0.0 | 0.0 | 0.0 | 6.0 | 5.0 |
| 10 | 13.5 | 12.0 | 4.5 | 3.5 | 6.0 | 5.5 | 0.5 | 0.0 | 0.0 | 0.0 | 6.0 | 5.0 |
| 11 | 13.0 | 11.5 | 3.5 | 3.0 | 5.5 | 4.5 | 0.5 | 0.5 | 0.0 | 0.0 | 6.0 | 5.0 |
| 12 | 12.0 | 10.5 | 4.0 | 3.5 | 4.5 | 3.5 | --- | --- | 0.0 | 0.0 | 6.0 | 5.0 |
| 13 | 13.0 | 11.0 | 5.0 | 4.0 | 3.5 | 3.0 | --- | --- | 1.0 | 0.0 | 5.0 | 3.5 |
| 14 | 13.5 | 13.0 | 6.5 | 5.0 | 5.5 | 3.5 | 0.5 | 0.0 | 1.5 | 1.0 | 5.0 | 3.5 |
| 15 | 13.0 | 11.5 | 9.0 | 6.5 | 5.5 | 4.0 | 0.0 | 0.0 | 1.0 | 0.0 | 5.0 | 4.0 |
| 16 | 12.0 | 10.5 | 9.5 | 8.5 | 4.0 | 2.0 | 1.0 | 0.0 | 0.5 | 0.0 | 5.5 | 5.0 |
| 17 | 10.5 | 9.5 | 8.5 | 6.5 | 2.0 | 1.5 | 1.5 | 0.0 | 1.5 | 0.5 | 5.5 | 5.5 |
| 18 | 10.0 | 9.5 | 6.5 | 5.5 | 1.5 | 1.0 | 0.0 | 0.0 | 1.5 | 1.0 | 5.5 | 4.5 |
| 19 | 9.5 | 8.0 | 6.5 | 6.0 | 1.0 | 1.0 | 0.0 | 0.0 | 2.0 | 1.5 | 5.5 | 5.0 |
| 20 | 9.5 | 8.5 | 6.0 | 5.0 | 1.0 | 1.0 | 0.0 | 0.0 | 2.0 | 1.5 | 6.0 | 5.0 |
| 21 | 9.5 | 9.0 | 5.0 | 4.0 | 1.5 | 1.0 | 0.0 | 0.0 | 3.0 | 1.0 | 6.0 | 5.5 |
| 22 | 9.0 | 8.0 | 6.5 | 5.0 | 1.5 | 1.5 | 0.5 | 0.0 | 4.5 | 3.0 | 6.0 | 4.5 |
| 23 | 9.0 | 8.0 | 8.0 | 6.5 | 3.0 | 1.5 | 1.0 | 0.5 | 4.5 | 3.5 | 6.5 | 5.0 |
| 24 | 9.5 | 8.0 | 8.0 | 6.5 | --- | --- | 1.0 | 1.0 | 3.5 | 2.0 | 6.5 | 6.5 |
| 25 | 9.0 | 8.5 | 8.5 | 8.0 | --- | --- | 1.0 | 1.0 | 3.5 | 3.0 | 6.5 | 5.0 |
| 26 | 10.0 | 9.0 | 8.5 | 8.0 | --- | --- | 1.5 | 0.5 | 3.0 | 3.0 | 6.0 | 5.0 |
| 27 | 10.0 | 9.0 | 8.5 | 8.0 | --- | --- | 3.0 | 1.5 | 3.5 | 3.0 | 6.0 | 5.5 |
| 28 | 9.0 | 7.0 | 9.0 | 8.5 | --- | --- | 3.0 | 2.0 | 4.0 | 3.5 | 6.5 | 5.5 |
| 29 | 8.0 | 7.0 | 9.0 | 8.5 | 4.0 | 3.5 | 3.0 | 2.0 | --- | --- | 6.5 | 4.0 |
| 30 | 9.0 | 8.0 | 8.5 | 7.0 | 3.5 | 3.5 | 3.0 | 2.0 | --- | --- | 4.5 | 3.5 |
| 31 | 10.0 | 9.0 | --- | --- | 3.5 | 3.0 | 3.0 | 2.0 | --- | --- | 5.0 | 4.5 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 7.0 | 5.0 | 15.5 | 14.5 | 16.5 | 16.0 | 21.0 | 18.5 | 21.5 | 19.0 | 21.0 | 19.0 |
| 2 | 7.0 | 6.5 | 15.0 | 13.0 | 16.5 | 16.0 | 21.5 | 18.5 | 22.0 | 20.0 | 21.0 | 19.5 |
| 3 | 9.5 | 6.5 | 13.0 | 11.0 | 18.0 | 15.5 | 22.0 | 20.0 | 21.5 | 21.0 | 19.5 | 18.0 |
| 4 | 11.5 | 9.5 | 13.5 | 11.0 | 19.0 | 16.5 | 23.5 | 20.5 | 23.0 | 21.0 | 18.0 | 16.0 |
| 5 | 11.5 | 11.0 | 13.0 | 11.0 | 20.0 | 18.0 | 23.5 | 21.5 | 23.0 | 20.0 | --- | --- |
| 6 | 11.0 | 9.0 | 11.5 | 11.0 | 20.5 | 18.0 | 23.5 | 21.0 | 21.0 | 20.0 | --- | --- |
| 7 | 9.0 | 7.0 | 11.5 | 10.5 | 20.0 | 18.0 | 23.5 | 20.0 | 20.0 | 18.5 | --- | --- |
| 8 | 9.5 | 9.0 | 13.0 | 10.5 | 19.0 | 18.0 | 23.5 | 20.0 | 20.5 | 18.5 | --- | --- |
| 9 | 9.0 | 5.5 | 13.0 | 12.0 | 21.0 | 18.0 | 24.0 | 21.0 | 20.0 | 19.0 | --- | --- |
| 10 | 6.5 | 5.5 | 12.0 | 12.0 | 24.5 | 19.5 | 24.0 | 22.0 | 20.5 | 18.0 | --- | --- |
| 11 | 9.0 | 5.5 | 13.5 | 11.0 | 24.5 | 21.5 | 23.0 | 20.0 | 20.0 | 18.0 | --- | --- |
| 12 | 10.0 | 8.0 | 13.5 | 12.0 | 22.0 | 19.5 | 21.0 | 19.0 | 20.0 | 18.0 | --- | --- |
| 13 | 10.0 | 9.5 | 13.0 | 12.0 | 20.0 | 18.0 | 21.5 | 18.5 | 20.0 | 18.5 | --- | --- |
| 14 | 10.0 | 9.5 | 14.5 | 11.5 | 20.0 | 16.5 | 23.5 | 19.5 | 22.0 | 19.5 | --- | --- |
| 15 | 10.5 | 10.0 | 16.5 | 14.0 | 20.5 | 17.0 | 24.0 | 21.0 | 21.5 | 19.0 | --- | --- |
| 16 | 11.0 | 9.0 | 16.5 | 16.0 | 20.0 | 19.0 | 23.0 | 20.5 | 21.0 | 18.5 | --- | --- |
| 17 | 11.5 | 9.0 | 18.0 | 16.5 | 21.0 | 19.0 | 22.0 | 20.0 | 20.5 | 20.0 | --- | --- |
| 18 | 12.0 | 10.0 | 18.5 | 17.0 | 21.0 | 19.0 | 21.0 | 20.0 | 21.0 | 19.0 | --- | --- |
| 19 | 12.0 | 10.5 | 18.0 | 16.5 | 20.0 | 19.0 | 22.0 | 20.0 | 21.0 | 19.0 | --- | --- |
| 20 | 11.0 | 9.0 | 16.5 | 15.0 | 21.0 | 18.5 | 21.5 | 19.0 | 21.5 | 19.5 | --- | --- |
| 21 | 12.0 | 10.0 | 15.0 | 14.5 | 20.5 | 19.5 | 21.0 | 18.5 | 22.0 | 20.5 | 18.0 | 17.0 |
| 22 | 13.0 | 12.0 | 17.0 | 15.0 | 20.5 | 19.0 | 21.0 | 18.5 | 22.0 | 20.0 | 17.0 | 15.5 |
| 23 | 13.5 | 13.0 | 18.5 | 17.0 | 19.5 | 18.5 | 20.0 | 19.0 | 22.0 | 20.5 | 15.5 | 13.5 |
| 24 | 13.5 | 11.5 | 17.0 | 16.0 | 19.0 | 17.0 | 19.0 | 18.0 | 22.0 | 20.5 | 13.5 | 11.0 |
| 25 | 11.5 | 10.0 | 16.0 | 15.0 | 18.5 | 17.0 | 18.0 | 16.5 | 22.0 | 20.0 | 12.0 | 11.0 |
| 26 | 11.5 | 10.5 | 15.0 | 14.5 | 17.0 | 16.0 | 18.5 | 16.5 | 21.0 | 19.5 | 12.0 | 11.0 |
| 27 | 12.0 | 10.5 | 14.5 | 13.5 | 16.5 | 16.0 | 19.0 | 18.0 | 21.0 | 19.5 | 13.5 | 11.0 |
| 28 | 13.5 | 12.0 | 15.0 | 13.5 | 17.0 | 16.0 | 20.0 | 18.5 | 21.5 | 20.5 | 13.5 | 13.5 |
| 29 | 15.5 | 13.5 | 14.5 | 14.5 | 18.5 | 16.0 | 20.5 | 19.5 | 20.5 | 19.5 | 16.5 | 13.5 |
| 30 | 15.5 | 15.0 | 16.0 | 14.5 | 19.5 | 16.5 | 22.0 | 20.0 | 20.0 | 19.5 | 16.5 | 14.5 |
| 31 | --- | --- | 16.5 | 15.5 | --- | --- | 21.5 | 19.0 | 20.0 | 18.0 | --- | --- |

## 01373500 FISHKILL CREEK AT BEACON, N.Y.

LOCATION.--Lat 41°30'40", long 73°56'55", Dutchess County, at former gaging station, at Bridge Street Bridge in Beacon, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--190 mi² (492 km²).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, April 1969 to September 1974.
Water temperatures: October 1961 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 28.0°C July 9; minimum, freezing point on Dec. 17-19, Jan. 17, 18.

Period of record:
Water temperatures: Maximum, 28.0°C July 9, 1974; minimum, freezing point on many days during winter periods some years.

REMARKS.--Water temperature measurements are made at lat 41°31'01", long 73°56'17", at the Texaco Research Center, 0.8 mi (1.3 km) upstream from former gaging station. No water temperature measurements made on weekends or holidays.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation. Water temperature records furnished by Texaco Incorporated.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 0935 | 5.5 | 620 | 150 | -- | 39 | -- | 13 | -- | 22 | -- | 2.1 |
| NOV. | | | | | | | | | | | | |
| 28... | 0950 | 4.2 | 310 | 30 | -- | 39 | -- | 13 | -- | 15 | -- | 1.8 |
| JAN. | | | | | | | | | | | | |
| 30... | 1015 | 5.7 | 670 | 40 | -- | 20 | -- | 6.8 | -- | 6.4 | -- | .9 |
| FEB. | | | | | | | | | | | | |
| 27... | 0915 | 4.8 | 220 | 30 | -- | 24 | -- | 8.3 | -- | 8.0 | -- | 1.0 |
| MAR. | | | | | | | | | | | | |
| 27... | 0940 | 5.3 | 390 | 50 | -- | 23 | -- | 8.0 | -- | 7.7 | -- | 1.0 |
| APR. | | | | | | | | | | | | |
| 24... | 0935 | 4.4 | 360 | 70 | -- | 24 | -- | 9.6 | -- | 10 | -- | 1.2 |
| MAY | | | | | | | | | | | | |
| 23... | 0945 | 5.4 | 380 | 50 | 26 | -- | 8.5 | -- | 9.4 | -- | .9 | -- |
| JULY | | | | | | | | | | | | |
| 10... | 1300 | -- | 200 | 50 | 33 | -- | 10 | -- | 16 | -- | 1.2 | -- |
| 31... | 1300 | -- | 480 | 140 | 35 | -- | 11 | -- | 15 | -- | 1.4 | -- |
| AUG. | | | | | | | | | | | | |
| 14... | 1100 | -- | 660 | 270 | 45 | -- | 13 | -- | 44 | -- | 1.5 | -- |
| SEP. | | | | | | | | | | | | |
| 12... | 1100 | -- | 300 | 80 | 34 | -- | 13 | -- | 15 | -- | 1.3 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 149 | 0 | 122 | 36 | 33 | -- | .4 | 2.7 | .00 | .00 | .31 |
| NOV. | | | | | | | | | | | |
| 28... | 140 | 0 | 115 | 32 | 23 | -- | .3 | 1.2 | .00 | .01 | .15 |
| JAN. | | | | | | | | | | | |
| 30... | 59 | 0 | 48 | 19 | 12 | -- | .2 | .86 | .01 | .11 | .28 |
| FEB. | | | | | | | | | | | |
| 27... | 81 | 0 | 66 | 22 | 15 | -- | .2 | 1.1 | .01 | .05 | .08 |
| MAR. | | | | | | | | | | | |
| 27... | 79 | 0 | 65 | 22 | 14 | -- | .1 | .94 | .02 | .14 | .06 |
| APR. | | | | | | | | | | | |
| 24... | 94 | 0 | 77 | 22 | 15 | -- | .2 | .80 | .05 | .11 | .19 |
| MAY | | | | | | | | | | | |
| 23... | 101 | 0 | 83 | 20 | 24 | .2 | -- | .95 | .04 | .01 | .21 |
| JULY | | | | | | | | | | | |
| 10... | 125 | 0 | 103 | 25 | 25 | -- | -- | .71 | .01 | .12 | .20 |
| 31... | 118 | 0 | 97 | 32 | 27 | -- | -- | .87 | .04 | .14 | .25 |
| AUG. | | | | | | | | | | | |
| 14... | 140 | -- | 115 | 34 | 80 | -- | -- | .95 | .03 | .22 | .18 |
| SEP. | | | | | | | | | | | |
| 12... | 133 | -- | 109 | 32 | 25 | -- | -- | .84 | .01 | .17 | .05 |

CONTINUED NEXT PAGE

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL RESI- DUE (MG/L) | RESIDUE ON IGNI- TION (MG/L) | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | FIXED NON- FILT- RABLE RESIDUE (MG/L) | HARD- NESS (CA.MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | .31 | 3.0 | .16 | -- | .11 | 225 | 260 | 210 | 30 | 16 | 150 |
| NOV.<br>28... | .16 | 1.4 | .07 | -- | .05 | 197 | 219 | 183 | 17 | 13 | 150 |
| JAN.<br>30... | .39 | 1.3 | .04 | -- | .02 | 100 | 109 | 92 | 26 | 24 | 78 |
| FEB.<br>27... | .13 | 1.2 | .03 | -- | .02 | 123 | 178 | 145 | 18 | 14 | 94 |
| MAR.<br>27... | .20 | 1.2 | .03 | -- | .02 | 120 | 149 | 107 | 12 | 12 | 90 |
| APR.<br>24... | .30 | 1.1 | .04 | -- | .02 | 133 | 167 | 154 | 9 | 6 | 99 |
| MAY<br>23... | .22 | 1.2 | .05 | .04 | -- | -- | 175 | 122 | 10 | 6 | -- |
| JULY<br>10... | .32 | 1.0 | .07 | .04 | -- | -- | 227 | 160 | 6 | 5 | -- |
| 31... | .39 | 1.3 | .08 | .05 | -- | -- | 223 | 181 | 13 | 11 | -- |
| AUG.<br>14... | .40 | 1.4 | .09 | .06 | -- | -- | 332 | 246 | 2 | 0 | -- |
| SEP.<br>12... | .22 | 1.1 | .09 | .06 | -- | -- | 219 | 169 | 1 | 0 | -- |

| DATE | NON- CAR- BONATE HARD- NESS (MG/L) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | COLOR (PLAT- INUM- COBALT UNITS) | TUR- BID- ITY (JTU) | CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | 29 | 427 | 7.5 | -- | -- | 8 | .0 | <1 | 50 | -- | <.5 |
| NOV.<br>28... | 36 | 363 | 7.5 | -- | -- | 16 | .0 | -- | -- | -- | -- |
| JAN.<br>30... | 30 | 162 | 7.4 | -- | -- | 7 | .0 | -- | -- | -- | -- |
| FEB.<br>27... | 28 | 237 | 7.7 | -- | -- | 5 | .0 | -- | -- | -- | -- |
| MAR.<br>27... | 26 | 211 | 7.7 | -- | -- | 8 | .0 | -- | -- | -- | -- |
| APR.<br>24... | 22 | 245 | 7.5 | -- | -- | 7 | .0 | -- | -- | -- | -- |
| MAY<br>23... | -- | 255 | 7.9 | -- | -- | 7 | .0 | -- | -- | -- | -- |
| JULY<br>10... | -- | 334 | 8.2 | 2 | 2 | 8 | -- | -- | -- | -- | -- |
| 31... | -- | 359 | 7.9 | 3 | 6 | 8 | -- | <1 | 20 | 390 | <.5 |
| AUG.<br>14... | -- | 505 | -- | 2 | 4 | 8 | -- | -- | -- | -- | -- |
| SEP.<br>12... | -- | 363 | -- | 2 | 4 | 15 | -- | 1 | 10 | 3 | <.5 |

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(TWICE-DAILY READINGS AT 0800 AND 1700)

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 | 14.0 | 16.5 | 11.0 | 11.5 | --- | --- | --- | --- | 4.5 | 4.5 | 5.0 | 6.0 |
| 2 | 14.0 | 15.5 | 10.0 | 11.0 | --- | --- | 3.5 | 3.5 | --- | --- | --- | --- |
| 3 | 14.5 | 17.0 | --- | --- | 3.0 | 3.5 | 1.5 | 2.0 | --- | --- | --- | --- |
| 4 | 15.5 | 18.0 | --- | --- | 3.5 | 4.5 | 3.0 | 3.0 | 1.0 | 2.0 | 5.0 | 6.0 |
| 5 | 16.5 | 19.5 | 6.5 | 7.0 | 6.0 | 7.0 | --- | --- | 1.0 | 2.0 | 8.5 | 9.5 |
| 6 | --- | --- | 6.0 | 7.0 | 8.0 | 9.0 | --- | --- | 1.0 | 3.5 | 8.5 | 9.5 |
| 7 | --- | --- | 6.0 | 6.5 | 7.0 | 6.5 | 2.0 | 3.0 | 6.0 | 6.5 | 8.5 | 9.0 |
| 8 | 13.5 | 15.0 | 5.5 | 6.0 | --- | --- | 2.0 | 3.0 | --- | --- | 8.0 | 8.5 |
| 9 | 13.5 | 14.0 | 5.0 | 5.0 | --- | --- | 0.5 | 0.5 | --- | --- | --- | --- |
| 10 | 13.0 | 14.5 | --- | --- | 5.5 | 5.5 | 0.5 | 0.5 | --- | --- | --- | --- |
| 11 | 11.0 | 13.5 | --- | --- | 5.0 | 5.0 | 0.5 | 0.5 | 4.0 | 4.0 | 5.0 | 6.0 |
| 12 | 11.5 | 14.0 | 4.0 | 4.5 | 4.5 | 5.0 | --- | --- | 2.0 | 2.0 | 5.0 | 6.0 |
| 13 | --- | --- | 5.0 | 5.5 | 2.0 | 3.0 | --- | --- | 2.0 | 1.5 | 3.5 | 4.5 |
| 14 | --- | --- | 6.0 | 8.5 | 4.5 | 5.0 | 0.5 | 0.5 | 2.0 | 3.0 | 3.0 | 4.5 |
| 15 | 11.5 | 14.5 | 6.5 | 9.0 | --- | --- | 1.0 | 1.5 | 1.5 | 2.0 | 3.5 | 5.5 |
| 16 | 12.0 | 14.5 | 9.5 | 9.5 | --- | --- | 1.0 | 1.5 | --- | --- | --- | --- |
| 17 | 11.0 | 13.0 | --- | --- | 0.0 | 0.5 | 1.0 | 0.0 | --- | --- | --- | --- |
| 18 | 11.0 | 11.0 | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | 3.5 | 5.0 |
| 19 | 10.0 | 11.0 | 6.0 | 7.0 | 0.0 | 0.5 | --- | --- | 3.0 | 3.0 | 4.5 | 6.0 |
| 20 | --- | --- | 6.5 | 7.0 | 0.5 | 0.5 | --- | --- | 3.0 | 3.0 | 5.0 | 6.5 |
| 21 | --- | --- | 5.0 | 6.0 | --- | --- | 1.0 | 1.0 | 1.5 | 3.5 | 6.0 | 5.5 |
| 22 | 10.0 | 11.5 | 5.0 | 6.0 | --- | --- | 1.5 | 2.0 | 3.5 | 5.0 | 4.0 | 5.5 |
| 23 | 10.0 | 12.0 | 5.5 | 9.5 | --- | --- | 2.0 | 3.5 | --- | --- | --- | --- |
| 24 | 10.5 | 11.0 | --- | --- | --- | --- | 3.0 | 3.5 | --- | --- | --- | --- |
| 25 | 10.0 | 12.0 | --- | --- | --- | --- | 3.0 | 3.5 | 3.0 | 3.0 | 4.0 | 5.5 |
| 26 | 10.5 | 11.5 | 7.0 | 8.0 | 1.5 | 3.0 | --- | --- | 2.0 | 3.5 | 4.5 | 5.0 |
| 27 | --- | --- | 7.0 | 8.0 | 3.5 | 4.0 | --- | --- | 2.0 | 3.5 | 4.5 | 5.5 |
| 28 | --- | --- | 8.0 | 9.0 | 5.0 | 5.0 | 4.5 | 4.5 | 3.0 | 4.5 | 5.0 | 6.5 |
| 29 | 9.0 | 10.0 | 9.0 | 8.5 | --- | --- | 4.5 | 5.0 | --- | --- | 4.5 | 3.5 |
| 30 | 10.0 | 10.0 | 6.5 | 6.5 | --- | --- | 4.5 | 5.5 | --- | --- | --- | --- |
| 31 | 9.5 | 11.0 | --- | --- | 4.0 | 4.0 | 4.5 | 5.5 | --- | --- | --- | --- |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 | 4.5 | 6.0 | 15.5 | 17.0 | --- | --- | 21.0 | 22.0 | 22.0 | 24.5 | --- | --- |
| 2 | 6.5 | 7.0 | 13.5 | 14.5 | --- | --- | 21.0 | 22.0 | 22.0 | 24.5 | --- | --- |
| 3 | 8.0 | 9.0 | 11.0 | 12.0 | 14.5 | 18.0 | 22.0 | 25.0 | --- | --- | 19.5 | 19.0 |
| 4 | 10.5 | 13.0 | --- | --- | 14.5 | 19.0 | --- | --- | --- | --- | 16.5 | 16.5 |
| 5 | --- | --- | --- | --- | 18.0 | 20.5 | 25.0 | 26.0 | 24.0 | 25.5 | 16.5 | 16.5 |
| 6 | --- | --- | 11.0 | 11.0 | 18.5 | 21.0 | --- | --- | 23.0 | 24.0 | 15.5 | 16.0 |
| 7 | --- | --- | 10.0 | 11.5 | 19.0 | 20.0 | --- | --- | 22.0 | 23.0 | --- | --- |
| 8 | 8.0 | 9.0 | 10.0 | 11.5 | --- | --- | 24.0 | 26.0 | 21.0 | 23.5 | --- | --- |
| 9 | 6.5 | 5.5 | 10.0 | 12.0 | --- | --- | 24.5 | 28.0 | 21.5 | 23.5 | 17.0 | 19.5 |
| 10 | 3.5 | 4.5 | 12.0 | 13.0 | 21.5 | 25.0 | 25.0 | 27.0 | --- | --- | 17.0 | 19.5 |
| 11 | 5.0 | 7.0 | --- | --- | 23.5 | 24.5 | 24.0 | 25.0 | --- | --- | 19.0 | 20.0 |
| 12 | --- | --- | --- | --- | 21.0 | 21.5 | 22.0 | 24.0 | 20.0 | 23.5 | 20.0 | 21.0 |
| 13 | --- | --- | 13.0 | 13.5 | 18.0 | 21.0 | --- | --- | 21.0 | 23.5 | 22.0 | 23.5 |
| 14 | --- | --- | 12.0 | 14.5 | 18.5 | 20.5 | --- | --- | 21.5 | 25.0 | --- | --- |
| 15 | 11.5 | 11.5 | 15.0 | 18.0 | --- | --- | 23.5 | 26.5 | 22.0 | 25.0 | --- | --- |
| 16 | 10.0 | 11.5 | 17.0 | 20.0 | --- | --- | 24.5 | 25.5 | 21.5 | 24.5 | 18.0 | 19.0 |
| 17 | 10.5 | 12.0 | 18.5 | 20.5 | 20.5 | 21.0 | 23.5 | 24.5 | --- | --- | 16.0 | 18.5 |
| 18 | 11.0 | 13.5 | --- | --- | 19.5 | 23.0 | 23.5 | 24.0 | --- | --- | 17.0 | 18.5 |
| 19 | 10.5 | 12.0 | --- | --- | 20.0 | 21.0 | 23.0 | 25.0 | 22.0 | 24.0 | 17.0 | 19.0 |
| 20 | --- | --- | 15.5 | 17.0 | 20.5 | --- | --- | --- | 21.5 | 24.5 | 19.5 | 19.5 |
| 21 | --- | --- | 13.5 | 16.0 | --- | --- | --- | --- | 23.0 | 25.5 | --- | --- |
| 22 | 14.0 | 15.5 | 15.5 | 18.0 | --- | --- | 21.0 | 23.5 | 23.0 | 24.5 | --- | --- |
| 23 | 16.5 | 17.0 | 15.5 | 18.0 | --- | --- | 21.5 | 23.5 | 23.5 | 24.5 | 15.0 | 17.0 |
| 24 | 14.5 | 14.0 | 16.0 | 18.0 | 18.5 | 19.5 | 21.0 | 21.5 | --- | --- | 13.0 | 13.5 |
| 25 | 13.5 | 14.5 | --- | --- | 18.0 | 16.5 | 19.0 | 20.0 | --- | --- | 13.0 | 13.5 |
| 26 | 14.0 | 12.0 | --- | --- | 15.5 | 16.0 | 18.5 | 19.5 | 22.0 | 22.0 | 12.0 | 13.0 |
| 27 | --- | --- | --- | --- | 15.5 | 16.5 | --- | --- | 22.0 | 22.0 | 12.0 | 14.5 |
| 28 | --- | --- | 11.5 | 14.0 | 16.0 | 17.0 | --- | --- | 23.5 | 23.5 | --- | --- |
| 29 | 15.5 | 18.5 | 13.0 | 14.0 | --- | --- | 20.5 | 21.5 | 22.0 | 22.0 | --- | --- |
| 30 | 17.0 | 17.0 | 13.5 | 14.0 | --- | --- | 21.0 | 24.5 | 23.0 | 23.0 | 15.5 | 16.5 |
| 31 | --- | --- | 14.5 | 16.5 | --- | --- | 21.5 | 24.0 | --- | --- | --- | --- |

## 01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.

**LOCATION.**--Lat 41°27'32", long 74°01'27", Orange County, at bridge on State Highway 9W, 0.6 mi (1.0 km) upstream from mouth and 1.5 mi (2.4 km) south of New Windsor.

**DRAINAGE AREA.**--175 mi$^2$ (453 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 0915 | 4.7 | 490 | 490 | -- | 42 | -- | 9.4 | -- | 70 | -- | 4.4 |
| NOV. 07... | 0900 | 5.6 | -- | -- | -- | 33 | -- | 11 | -- | 30 | -- | 4.6 |
| DEC. 05... | 0925 | 3.7 | 790 | 90 | -- | 33 | -- | 7.0 | -- | 21 | -- | 3.4 |
| MAR. 06... | 0855 | 2.8 | 270 | 40 | -- | 21 | -- | 4.2 | -- | 14 | -- | 1.5 |
| MAY 01... | 0900 | .9 | 490 | 70 | 24 | -- | 4.7 | -- | 13 | -- | 1.4 | -- |
| 29... | 0905 | 2.7 | 350 | 100 | 25 | -- | 5.2 | -- | 16 | -- | 1.4 | -- |
| JUNE 26... | 0840 | 5.8 | 1900 | 280 | 26 | -- | 5.0 | -- | 14 | -- | 1.1 | -- |
| JULY 24... | 1100 | -- | 420 | 1000 | 39 | -- | 6.8 | -- | 33 | -- | 2.2 | -- |
| AUG. 21... | 1000 | -- | 690 | 500 | 40 | -- | 7.9 | -- | 37 | -- | 2.6 | -- |
| SEP. 18... | 1100 | -- | 610 | 350 | 35 | -- | 7.0 | -- | 29 | -- | 1.7 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 172 | 0 | 141 | 63 | 82 | -- | .6 | .00 | .01 | 9.8 | .00 | 9.8 |
| NOV. 07... | 114 | 0 | 94 | 58 | 38 | -- | .3 | .20 | .03 | 3.5 | 1.0 | 4.5 |
| DEC. 05... | 79 | 0 | 65 | 47 | 30 | -- | .5 | .79 | .13 | .22 | .46 | .68 |
| MAR. 06... | 52 | 0 | 43 | 26 | 26 | -- | .3 | .61 | .03 | .39 | .26 | .65 |
| MAY 01... | 73 | 0 | 60 | 25 | 24 | .2 | -- | .34 | .05 | .89 | .31 | 1.2 |
| 29... | 83 | 0 | 68 | 21 | 24 | .2 | -- | .51 | .09 | 1.1 | .70 | 1.8 |
| JUNE 26... | 72 | 0 | 59 | 20 | 22 | .2 | -- | .55 | .19 | .11 | .44 | .55 |
| JULY 24... | 135 | 0 | 111 | 54 | 42 | -- | -- | 1.3 | .25 | 7.0 | .00 | 6.9 |
| AUG. 21... | 99 | -- | 81 | 38 | 70 | -- | -- | .16 | .16 | -- | -- | 2.1 |
| SEP. 18... | 110 | -- | 90 | 30 | 48 | -- | -- | .38 | .10 | 2.6 | .50 | 3.1 |

## 01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 9.8 | 1.1 | -- | 1.1 | 364 | 442 | 343 | 22 | 5 | 140 | 3 |
| NOV. 07... | 4.7 | .44 | -- | .33 | 238 | 139 | 122 | 26 | 16 | 130 | 34 |
| DEC. 05... | 1.6 | .22 | -- | .13 | 185 | 259 | 207 | 54 | 40 | 110 | 46 |
| MAR. 06... | 1.3 | .08 | -- | .05 | 122 | 153 | 127 | 20 | 11 | 70 | 27 |
| MAY 01... | 1.6 | .16 | .09 | -- | -- | 170 | 131 | 12 | 6 | -- | -- |
| 29... | 2.4 | .18 | .12 | -- | -- | 189 | 154 | 10 | 5 | -- | -- |
| JUNE 26... | 1.3 | .20 | .07 | -- | -- | 193 | 147 | 42 | 34 | -- | -- |
| JULY 24... | 8.4 | .85 | .68 | -- | -- | 336 | 243 | 12 | 2 | -- | -- |
| AUG. 21... | 2.4 | .66 | .35 | -- | -- | 326 | 261 | 26 | 6 | -- | -- |
| SEP. 18... | 3.6 | .34 | .27 | -- | -- | 270 | 214 | 15 | 10 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 643 | 6.9 | -- | -- | 110 | -- | .2 | -- | -- | -- | -- |
| NOV. 07... | 424 | 6.9 | -- | -- | 64 | -- | .1 | <1 | -- | -- | -- |
| DEC. 05... | 388 | 6.6 | -- | -- | 37 | -- | .0 | -- | -- | -- | -- |
| MAR. 06... | 237 | 7.0 | -- | -- | 18 | -- | .0 | -- | -- | -- | -- |
| MAY 01... | 252 | 7.1 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| 29... | 265 | 7.1 | -- | -- | 28 | -- | .1 | -- | -- | -- | -- |
| JUNE 26... | 229 | 7.3 | -- | -- | 22 | -- | .0 | 0 | 10 | 61 | <.5 |
| JULY 24... | 426 | 6.9 | 30 | 5 | 56 | -- | -- | -- | -- | -- | -- |
| AUG. 21... | 414 | -- | 10 | 30 | 74 | -- | -- | -- | -- | -- | -- |
| SEP. 18... | 401 | -- | 10 | 8 | 55 | 16 | -- | 1 | 10 | 12 | .6 |

## 01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.

**LOCATION.**--Lat 41°18'51", long 73°59'08", Rockland County, at south dock of Bear Mountain State Park, at Bear Mountain, and 0.4 mi (0.6 km) downstream from Bear Mountain Bridge.

**DRAINAGE AREA.**--12,521 mi$^2$ (32,429 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses, April 1969 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 1010 | 1.0 | 90 | 130 | -- | 56 | -- | 110 | -- | 1000 | -- | 38 |
| NOV. 07... | 0940 | .8 | -- | -- | -- | 40 | -- | 75 | -- | 650 | -- | 26 |
| DEC. 05... | 1015 | .5 | 1000 | 60 | -- | 33 | -- | 34 | -- | 270 | -- | 1.0 |
| MAR. 06... | 0940 | 4.4 | 1400 | 60 | -- | 20 | -- | 3.8 | -- | 7.0 | -- | 1.2 |
| MAY 01... | 0950 | 3.4 | 1400 | 50 | 20 | -- | 5.0 | -- | 4.0 | -- | .8 | -- |
| 29... | 0950 | 3.7 | 830 | 70 | 18 | -- | 4.2 | -- | 6.2 | -- | 1.0 | -- |
| JUNE 26... | 0925 | 1.5 | 1100 | 70 | 29 | -- | 13 | -- | 85 | -- | 3.4 | -- |
| JULY 24... | 1200 | -- | 720 | 170 | 36 | -- | 55 | -- | 380 | -- | 14 | -- |
| AUG. 21... | 1100 | -- | 520 | 80 | 39 | -- | 100 | -- | 400 | -- | 14 | -- |
| SEP. 18... | 1200 | -- | 450 | 40 | 26 | -- | 7.0 | -- | 27 | -- | 2.0 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 80 | 0 | 66 | 250 | 1800 | -- | .4 | .93 | .00 | .02 | .18 | .20 |
| NOV. 07... | 80 | 0 | 66 | 170 | 1200 | -- | .2 | .81 | .00 | .03 | .36 | .39 |
| DEC. 05... | 77 | 0 | 63 | 84 | 450 | -- | .4 | .97 | .01 | .04 | .17 | .21 |
| MAR. 06... | 54 | 0 | 44 | 20 | 12 | -- | .2 | .78 | .05 | .31 | .18 | .49 |
| MAY 01... | 58 | 0 | 48 | 19 | 9.7 | .2 | -- | .66 | .08 | .16 | .16 | .32 |
| 29... | 54 | 0 | 44 | 15 | 9.3 | .2 | -- | .60 | .04 | .07 | .29 | .36 |
| JUNE 26... | 51 | 0 | 42 | 37 | 160 | .1 | -- | .62 | .03 | .01 | .30 | .31 |
| JULY 24... | 66 | 0 | 54 | 120 | 680 | -- | -- | .57 | .03 | .33 | .32 | .65 |
| AUG. 21... | 76 | -- | 62 | 110 | 650 | -- | -- | .78 | .00 | .07 | .23 | .30 |
| SEP. 18... | 76 | -- | 62 | 27 | 50 | -- | -- | .58 | .00 | .10 | .27 | .37 |

## 01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 11... | 1.1 | .12 | -- | .06 | 3300 | 3680 | 3090 | 14 | 5 | 590 | 530 |
| NOV. | | | | | | | | | | | |
| 07... | 1.2 | .14 | -- | .06 | 2200 | -- | -- | 46 | 37 | 410 | 340 |
| DEC. | | | | | | | | | | | |
| 05... | 1.2 | .14 | -- | .05 | 911 | 1000 | 852 | 47 | 41 | 220 | 160 |
| MAR. | | | | | | | | | | | |
| 06... | 1.3 | .06 | -- | .04 | 95 | 145 | 125 | 40 | 33 | 66 | 21 |
| MAY | | | | | | | | | | | |
| 01... | 1.1 | .07 | .03 | -- | -- | 143 | 112 | 30 | 29 | -- | -- |
| 29... | 1.0 | .07 | .03 | -- | -- | 132 | 115 | 21 | 17 | -- | -- |
| JUNE | | | | | | | | | | | |
| 26... | .96 | .11 | .05 | -- | -- | 438 | 340 | 29 | 24 | -- | -- |
| JULY | | | | | | | | | | | |
| 24... | 1.3 | .10 | .04 | -- | -- | 1660 | 1320 | 28 | 24 | -- | -- |
| AUG. | | | | | | | | | | | |
| 21... | 1.1 | .11 | .08 | -- | -- | 1600 | 1320 | 26 | 19 | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | .95 | .10 | .06 | -- | -- | 227 | 186 | 15 | 4 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 11... | 5860 | 7.2 | -- | -- | 28 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 07... | 3800 | 7.5 | -- | -- | 18 | -- | .0 | 1 | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 05... | 1700 | 7.1 | -- | -- | 19 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 06... | 185 | 7.2 | -- | -- | 12 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01... | 179 | 7.3 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| 29... | 168 | 7.3 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 26... | 685 | 7.4 | -- | -- | 12 | -- | .0 | 0 | 20 | 51 | <.5 |
| JULY | | | | | | | | | | | |
| 24... | 2550 | 7.1 | 5 | 20 | 10 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 21... | 2560 | -- | 5 | 20 | 13 | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 344 | -- | 2 | 8 | 12 | 3.9 | -- | 2 | 10 | 4 | <.5 |

## 01374350 HUDSON RIVER AT VERPLANCK, N.Y.

**LOCATION.**--Lat 41°15'23", long 73°57'59", Westchester County, at pier at end of 6th Street in Verplanck and across the river from Tompkins Cove.

**DRAINAGE AREA.**--12,612 mi² (32,665 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to September 1974.

**COOPERATION.**--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 1045 | 1.0 | 470 | 80 | -- | 59 | -- | 150 | -- | 1100 | -- | 42 |
| NOV. 28... | 1115 | .6 | 780 | 50 | -- | 40 | -- | 56 | -- | 460 | -- | 16 |
| JAN. 30... | 1120 | 4.9 | 710 | 50 | -- | 22 | -- | 4.8 | -- | 8.0 | -- | 1.2 |
| MAR. 27... | 1050 | 4.7 | 900 | 40 | -- | 18 | -- | 4.4 | -- | 8.6 | -- | 1.3 |
| APR. 24... | 1030 | 4.2 | 1800 | 100 | -- | 19 | -- | 4.2 | -- | 7.3 | -- | 1.3 |
| MAY 23... | 1045 | 3.5 | 3600 | 200 | 18 | -- | 4.5 | -- | 6.5 | -- | 1.3 | -- |
| JULY 10... | 1400 | -- | 1300 | 70 | 22 | -- | 4.8 | -- | 10 | -- | 1.3 | -- |
| 31... | 1500 | -- | 2200 | 260 | 54 | -- | 120 | -- | 880 | -- | 35 | -- |
| AUG. 14... | 1200 | -- | 2300 | 260 | 75 | -- | 110 | -- | 1200 | -- | 40 | -- |
| SEP. 12... | 1300 | -- | 3400 | 170 | 39 | -- | 80 | -- | 470 | -- | 15 | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 80 | 0 | 66 | 270 | 2000 | -- | .4 | .81 | .00 | .05 | .17 |
| NOV. 28... | 78 | 0 | 64 | 130 | 780 | -- | .4 | .84 | .00 | .03 | .24 |
| JAN. 30... | 59 | 0 | 48 | 23 | 13 | -- | .3 | .81 | .09 | .18 | .48 |
| MAR. 27... | 56 | 0 | 46 | 20 | 14 | -- | .1 | .71 | .06 | .24 | .07 |
| APR. 24... | 53 | 0 | 43 | 18 | 11 | -- | .2 | .65 | .05 | .11 | .27 |
| MAY 23... | 57 | 0 | 47 | 16 | 15 | .2 | -- | .79 | .00 | .00 | .54 |
| JULY 10... | 63 | 0 | 52 | 19 | 13 | -- | -- | .54 | .01 | .15 | .21 |
| 31... | 69 | -- | 57 | 250 | 1600 | -- | -- | .56 | .06 | .18 | .47 |
| AUG. 14... | 74 | -- | 61 | 300 | 2200 | -- | -- | .63 | .02 | .21 | .32 |
| SEP. 12... | 84 | -- | 69 | 130 | 770 | -- | -- | .77 | .00 | .16 | .24 |

## 01374350 HUDSON RIVER AT VERPLANCK, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | .22 | 1.0 | .11 | -- | .09 | 3660 | 3900 | 3200 | 12 | 3 | 770 |
| NOV.<br>28... | .27 | 1.1 | .12 | -- | .08 | 1520 | 1620 | 1400 | 19 | 17 | 330 |
| JAN.<br>30... | .66 | 1.6 | .07 | -- | .04 | 106 | 115 | 100 | 20 | 18 | 75 |
| MAR.<br>27... | .31 | 1.1 | .08 | -- | .04 | 99 | 132 | 105 | 26 | 25 | 63 |
| APR.<br>24... | .38 | 1.1 | .13 | -- | .04 | 91 | 174 | 154 | 56 | 51 | 65 |
| MAY<br>23... | .54 | 1.3 | .27 | .04 | -- | -- | 257 | 156 | 117 | 143 | -- |
| JULY<br>10... | .36 | .91 | .11 | .05 | -- | -- | 160 | 116 | 33 | 30 | -- |
| 31... | .65 | 1.3 | .16 | .07 | -- | -- | 7440 | 5800 | 61 | 53 | -- |
| AUG.<br>14... | .53 | 1.2 | .15 | .09 | -- | -- | 4640 | 3620 | 34 | 24 | -- |
| SEP.<br>12... | .40 | 1.2 | .21 | .09 | -- | -- | 1950 | 1530 | 0 | 0 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | 700 | 6340 | 7.5 | -- | -- | 8 | .0 | 1 | 30 | 5 | <.5 |
| NOV.<br>28... | 270 | 2830 | 7.6 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| JAN.<br>30... | 26 | 189 | 7.2 | -- | -- | 13 | .0 | -- | -- | -- | -- |
| MAR.<br>27... | 17 | 181 | 7.4 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| APR.<br>24... | 21 | 170 | 7.1 | -- | -- | 13 | .0 | -- | -- | -- | -- |
| MAY<br>23... | -- | 169 | 7.3 | -- | -- | 23 | .0 | -- | -- | -- | -- |
| JULY<br>10... | -- | 196 | 7.7 | 4 | 20 | 11 | -- | -- | -- | -- | -- |
| 31... | -- | 5700 | 7.1 | 2 | 30 | 20 | -- | 1 | 20 | 250 | <.5 |
| AUG.<br>14... | -- | 6510 | -- | 1 | 20 | 21 | -- | -- | -- | -- | -- |
| SEP.<br>12... | -- | 2440 | -- | 4 | 40 | 18 | -- | 3 | 20 | 17 | 1.4 |

## 01376269 HUDSON RIVER AT PIERMONT, N.Y.

LOCATION.--Lat 41°02'34", long 73°53'48", Rockland County, at end of pier in Piermont, 0.3 mi (0.5 km) upstream from Sparkill Creek and 1.8 mi (2.9 km) downstream from Tappen Zee Bridge.

DRAINAGE AREA.--13,125 mi$^2$ (33,994 km$^2$).

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1155 | 1.5 | 840 | 110 | -- | 100 | -- | 320 | -- | 2400 | -- | 90 |
| NOV. 07... | 1115 | 1.4 | -- | -- | -- | 98 | -- | 280 | -- | 2100 | -- | 80 |
| DEC. 05... | 1225 | 1.0 | 520 | 50 | -- | 65 | -- | 140 | -- | 1200 | -- | 48 |
| MAR. 06... | 1110 | 4.4 | 1800 | 60 | -- | 40 | -- | 70 | -- | 500 | -- | 20 |
| MAY 01... | 1130 | 4.4 | 3000 | 130 | 40 | -- | 33 | -- | 230 | -- | 9.6 | -- |
| 29... | 1120 | 1.1 | 1300 | 90 | 26 | -- | 26 | -- | 180 | -- | 7.6 | -- |
| JUNE 26... | 1100 | 2.4 | 1200 | 110 | 72 | -- | 160 | -- | 1300 | -- | 51 | -- |
| JULY 24... | 1600 | -- | 980 | 70 | 96 | -- | 320 | -- | 2200 | -- | 82 | -- |
| AUG. 21... | 1300 | -- | 900 | 90 | 130 | -- | 300 | -- | 2500 | -- | 90 | -- |
| SEP. 18... | 1500 | -- | 870 | 50 | 70 | -- | 200 | -- | 1600 | -- | 60 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 86 | 0 | 71 | 600 | 4500 | -- | .6 | 1.1 | .00 | .01 | .27 | .28 |
| NOV. 07... | 98 | 0 | 80 | 26 | 3900 | -- | .5 | 1.3 | .00 | .13 | .36 | .49 |
| DEC. 05... | 80 | 0 | 66 | 280 | 2200 | -- | .5 | .80 | .49 | .19 | .03 | .22 |
| MAR. 06... | 65 | 0 | 53 | 150 | 980 | -- | .2 | .79 | .03 | .53 | .00 | .53 |
| MAY 01... | 66 | 0 | 54 | 72 | 450 | .2 | -- | 2.2 | .17 | .01 | 1.5 | 1.5 |
| 29... | 55 | 0 | 45 | 61 | 360 | .1 | -- | .42 | .01 | .27 | .62 | .89 |
| JUNE 26... | 116 | 0 | 95 | 340 | 2300 | .4 | -- | .49 | .04 | 1.9 | .40 | 2.3 |
| JULY 24... | 75 | 0 | 62 | 590 | 4100 | -- | -- | .36 | .03 | .60 | .40 | 1.0 |
| AUG. 21... | 88 | -- | 72 | 600 | 4600 | -- | -- | .56 | .01 | .39 | .25 | .64 |
| SEP. 18... | 84 | -- | 69 | 400 | 3200 | -- | -- | .75 | .01 | .32 | .45 | .77 |

## 01376269 HUDSON RIVER AT PIERMONT, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 10... | 1.4 | .18 | -- | .12 | 8060 | -- | -- | 14 | 0 | 1600 | 1500 |
| NOV. | | | | | | | | | | | |
| 07... | 1.8 | .19 | -- | .13 | 6540 | 4160 | 3480 | 28 | 18 | 1400 | 1300 |
| DEC. | | | | | | | | | | | |
| 05... | 1.5 | .14 | -- | .10 | 3970 | 4210 | 3550 | 18 | 15 | 740 | 670 |
| MAR. | | | | | | | | | | | |
| 06... | 1.3 | .18 | -- | .07 | 1800 | 2050 | 1760 | 60 | 53 | 390 | 340 |
| MAY | | | | | | | | | | | |
| 01... | 3.9 | .35 | .16 | -- | -- | 1120 | 916 | 106 | 94 | -- | -- |
| 29... | 1.3 | .14 | .04 | -- | -- | 846 | 696 | 39 | 31 | -- | -- |
| JUNE | | | | | | | | | | | |
| 26... | 2.8 | .32 | .22 | -- | -- | 5000 | 4100 | 26 | 22 | -- | -- |
| JULY | | | | | | | | | | | |
| 24... | 1.4 | .23 | .14 | -- | -- | 8510 | 6960 | 35 | 29 | -- | -- |
| AUG. | | | | | | | | | | | |
| 21... | 1.2 | .20 | .13 | -- | -- | 8990 | 7360 | 10 | 7 | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1.5 | .20 | .14 | -- | -- | 5620 | 4720 | 29 | 7 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 10... | 13500 | 7.2 | -- | -- | 10 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 07... | 12200 | 7.3 | -- | -- | 10 | -- | .0 | 2 | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 05... | 6820 | 7.1 | -- | -- | 0 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 06... | 3430 | 7.2 | -- | -- | 22 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01... | 1660 | 7.1 | -- | -- | 23 | -- | .0 | -- | -- | -- | -- |
| 29... | 1300 | 7.5 | -- | -- | 17 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 26... | 7840 | 7.3 | -- | -- | 6 | -- | .2 | 0 | 20 | 160 | <.5 |
| JULY | | | | | | | | | | | |
| 24... | 11900 | 7.2 | 2 | 20 | 10 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 21... | 13300 | -- | 2 | 20 | 10 | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 8610 | -- | 2 | 20 | 16 | 4.4 | -- | 3 | 20 | 6 | .5 |

## 01376510 HUDSON RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°55'00", long 73°54'41", Westchester County, at south end of dock at the Westchester County Joint Sewage Treatment Plant at Yonkers-New York City line.

DRAINAGE AREA.--13,183 mi² (34,144 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 1200 | 1.2 | 480 | 90 | -- | 130 | -- | 440 | -- | 3300 | -- | 120 |
| NOV. | | | | | | | | | | | | |
| 28... | 1035 | 1.1 | 740 | 80 | -- | 140 | -- | 440 | -- | 3500 | -- | 140 |
| JAN. | | | | | | | | | | | | |
| 17... | 1025 | 5.6 | 1900 | 130 | -- | 74 | -- | 200 | -- | 1700 | -- | 80 |
| 30... | 1020 | 4.7 | 1800 | 90 | -- | 31 | -- | 36 | -- | 260 | -- | 12 |
| FEB. | | | | | | | | | | | | |
| 27... | 1055 | 3.8 | 80 | 80 | -- | 49 | -- | 95 | -- | 800 | -- | -- |
| MAR. | | | | | | | | | | | | |
| 27... | 1200 | 4.5 | 1000 | 110 | -- | 20 | -- | 88 | -- | 700 | -- | 30 |
| APR. | | | | | | | | | | | | |
| 24... | 1010 | 3.8 | 1600 | 90 | -- | 83 | -- | 83 | -- | 660 | -- | 27 |
| MAY | | | | | | | | | | | | |
| 23... | 1110 | 2.7 | 2500 | 110 | 83 | -- | 220 | -- | 2000 | -- | 77 | -- |
| JULY | | | | | | | | | | | | |
| 10... | 1400 | -- | 420 | 70 | 56 | -- | 160 | -- | 1400 | -- | 53 | -- |
| 31... | 1600 | -- | 400 | 120 | 120 | -- | 320 | -- | 2400 | -- | 96 | -- |
| AUG. | | | | | | | | | | | | |
| 14... | 1400 | -- | 450 | 200 | 110 | -- | 310 | -- | 2500 | -- | 89 | -- |
| SEP. | | | | | | | | | | | | |
| 12... | 1400 | -- | 369 | 50 | 91 | -- | 230 | -- | 2000 | -- | 82 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 93 | 0 | 76 | 860 | 6300 | -- | .7 | 1.2 | .00 | .15 | .06 |
| NOV. | | | | | | | | | | | |
| 28... | 93 | 0 | 76 | 920 | 6800 | -- | .8 | .73 | .57 | .27 | -- |
| JAN. | | | | | | | | | | | |
| 17... | 67 | 0 | 55 | 400 | 3000 | -- | .5 | .67 | .06 | .56 | .25 |
| 30... | 59 | 0 | 48 | 82 | 500 | -- | .2 | .80 | .06 | .73 | .67 |
| FEB. | | | | | | | | | | | |
| 27... | 61 | 0 | 50 | 200 | 1490 | -- | .2 | .72 | .01 | .35 | .36 |
| MAR. | | | | | | | | | | | |
| 27... | 61 | 0 | 5 | 180 | 1300 | -- | .1 | .73 | .03 | .50 | .32 |
| APR. | | | | | | | | | | | |
| 24... | 65 | 0 | 53 | 160 | 1200 | -- | .1 | .61 | .02 | .46 | .40 |
| MAY | | | | | | | | | | | |
| 23... | 68 | 0 | 56 | 450 | 3500 | .4 | -- | .64 | .13 | .11 | .25 |
| JULY | | | | | | | | | | | |
| 10... | 67 | 0 | 55 | 360 | 2400 | -- | -- | .40 | .01 | .45 | .36 |
| 31... | 61 | 0 | 50 | 850 | 4500 | -- | -- | .35 | .03 | .50 | .37 |
| AUG. | | | | | | | | | | | |
| 14... | 86 | -- | 71 | 720 | 4900 | -- | -- | .38 | .05 | .90 | .40 |
| SEP. | | | | | | | | | | | |
| 12... | 91 | -- | 75 | 540 | 3800 | -- | -- | .62 | .05 | 1.2 | .50 |

## 01376510 HUDSON RIVER AT YONKERS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE PESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | .21 | 1.4 | .17 | -- | .14 | 11200 | 21000 | 11000 | 21 | 7 | 2100 |
| NOV. | | | | | | | | | | | |
| 28... | .23 | 1.5 | .19 | -- | .13 | 12000 | 13400 | 10400 | 12 | 9 | 2200 |
| JAN. | | | | | | | | | | | |
| 17... | .81 | 1.5 | .18 | -- | .09 | 5490 | 5920 | 4910 | 47 | 38 | 1000 |
| 30... | 1.4 | 2.3 | .22 | -- | .08 | 955 | 1050 | 909 | 57 | 50 | 230 |
| FEB. | | | | | | | | | | | |
| 27... | .71 | 1.4 | .11 | -- | .05 | -- | 2850 | 2450 | 38 | 31 | 510 |
| MAR. | | | | | | | | | | | |
| 27... | .82 | 1.6 | .17 | -- | .06 | 2330 | 2670 | 2180 | 64 | 63 | 410 |
| APR. | | | | | | | | | | | |
| 24... | .86 | 1.5 | .13 | -- | .06 | 2250 | 2550 | 2380 | 48 | 46 | 550 |
| MAY | | | | | | | | | | | |
| 23... | .36 | 1.1 | .17 | .08 | -- | -- | 7100 | 5820 | 58 | 43 | -- |
| JULY | | | | | | | | | | | |
| 10... | .81 | 1.2 | .16 | .08 | -- | -- | 5180 | 4060 | 12 | 10 | -- |
| 31... | .87 | 1.3 | .20 | .12 | -- | -- | 8950 | 7030 | 15 | 11 | -- |
| AUG. | | | | | | | | | | | |
| 14... | 1.3 | 1.7 | .25 | .16 | -- | -- | 10200 | 8150 | 14 | 9 | -- |
| SEP. | | | | | | | | | | | |
| 12... | 1.7 | 2.4 | .33 | .25 | -- | -- | 7440 | 6260 | 7 | 4 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 2100 | 18100 | 7.2 | -- | -- | 6 | .0 | 1 | 80 | -- | <.5 |
| NOV. | | | | | | | | | | | |
| 28... | 2100 | 18500 | 7.1 | -- | -- | 7 | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 17... | 950 | 9230 | 7.1 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| 30... | 180 | 1740 | 7.0 | -- | -- | 22 | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | | |
| 27... | 460 | 4730 | 7.4 | -- | -- | 20 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 27... | 410 | 4160 | 7.2 | -- | -- | 21 | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 24... | 500 | 3940 | 7.2 | -- | -- | 20 | .1 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 23... | -- | 10700 | 7.4 | -- | -- | 11 | .4 | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 10... | -- | 7880 | 7.1 | 2 | 8 | 7 | -- | -- | -- | -- | -- |
| 31... | -- | 13100 | 7.2 | 2 | 9 | 15 | -- | 1 | 40 | 520 | <.5 |
| AUG. | | | | | | | | | | | |
| 14... | -- | 14100 | -- | 4 | 8 | 12 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 12... | -- | 12000 | -- | 4 | 5 | 29 | -- | 1 | 30 | 5 | .5 |

## 01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.

LOCATION.--Lat 41°02'39", long 73°59'18", Orange County, at bridge on Orangeburg Road (Veterans Memorial Drive), 300 ft (91 m) west of Hunt Road and 2 mi (3.2 km) west of Orangeburg.

DRAINAGE AREA.--45.8 mi$^2$ (118.6 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 10... | 1120 | 2.1 | 880 | -- | -- | 28 | -- | 6.1 | -- | 18 | -- | 2.5 |
| NOV. | | | | | | | | | | | | |
| 07... | 1035 | 4.9 | -- | -- | -- | 32 | -- | 7.9 | -- | 18 | -- | 3.6 |
| DEC. | | | | | | | | | | | | |
| 05... | 1120 | 3.4 | 1600 | 290 | -- | 34 | -- | 7.1 | -- | 20 | -- | 3.0 |
| MAR. | | | | | | | | | | | | |
| 06... | 1020 | 2.8 | 380 | 70 | -- | 28 | -- | 5.3 | -- | 31 | -- | 2.1 |
| MAY | | | | | | | | | | | | |
| 01... | 1025 | .1 | 430 | 100 | 27 | -- | 5.2 | -- | 19 | -- | 1.6 | -- |
| 29... | 1045 | 1.6 | 590 | 300 | 26 | -- | 5.3 | -- | 18 | -- | 1.8 | -- |
| JUNE | | | | | | | | | | | | |
| 26... | 1020 | 1.4 | 640 | 290 | 36 | -- | 6.1 | -- | 18 | -- | 1.7 | -- |
| JULY | | | | | | | | | | | | |
| 24... | 1400 | -- | 560 | 220 | 28 | -- | 5.8 | -- | 23 | -- | 2.0 | -- |
| AUG. | | | | | | | | | | | | |
| 21... | 1200 | -- | 850 | 460 | 34 | -- | 6.0 | -- | 19 | -- | 2.1 | -- |
| SEP. | | | | | | | | | | | | |
| 18... | 1300 | -- | 350 | 100 | 26 | -- | 4.4 | -- | 16 | -- | 1.7 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDF (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 10... | 95 | 0 | 78 | 20 | 30 | -- | .3 | 1.6 | .00 | .07 | .40 | .47 |
| NOV. | | | | | | | | | | | | |
| 07... | 104 | 0 | 85 | 22 | 31 | -- | .2 | 2.2 | .00 | .00 | .42 | .42 |
| DEC. | | | | | | | | | | | | |
| 05... | 96 | 0 | 79 | 27 | 34 | -- | .4 | 2.3 | .00 | .02 | .46 | .48 |
| MAR. | | | | | | | | | | | | |
| 06... | 71 | 0 | 58 | 24 | 58 | -- | .2 | .79 | .03 | .40 | -- | .33 |
| MAY | | | | | | | | | | | | |
| 01... | 74 | 0 | 61 | 24 | 36 | .0 | -- | .40 | .02 | .22 | .49 | .71 |
| 29... | 76 | 0 | 62 | 21 | 33 | .2 | -- | .32 | .03 | .43 | .77 | 1.2 |
| JUNE | | | | | | | | | | | | |
| 26... | 88 | 0 | 72 | 22 | 33 | .2 | -- | .17 | .04 | .20 | .80 | 1.0 |
| JULY | | | | | | | | | | | | |
| 24... | 89 | 0 | 73 | 26 | 39 | -- | -- | .03 | .01 | .33 | .77 | 1.1 |
| AUG. | | | | | | | | | | | | |
| 21... | 83 | -- | 68 | 25 | 42 | -- | -- | .23 | .04 | .47 | .03 | .50 |
| SEP. | | | | | | | | | | | | |
| 18... | 80 | 2 | 69 | 21 | 29 | -- | -- | .30 | .04 | .35 | .54 | .89 |

## 01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 10... | 2.1 | .09 | -- | .02 | 154 | 194 | 147 | 18 | 6 | 95 | 17 |
| NOV. | | | | | | | | | | | |
| 07... | 2.6 | .04 | -- | .01 | 171 | 143 | 138 | 47 | 19 | 110 | 27 |
| DEC. | | | | | | | | | | | |
| 05... | 2.8 | .12 | -- | .02 | 176 | 253 | 215 | 2 | 2 | 110 | 35 |
| MAR. | | | | | | | | | | | |
| 06... | 1.1 | .05 | -- | .02 | 186 | 214 | 189 | 15 | 9 | 92 | 34 |
| MAY | | | | | | | | | | | |
| 01... | 1.1 | .06 | .02 | -- | -- | 198 | 160 | 8 | 6 | -- | -- |
| 29... | 1.6 | .10 | .04 | -- | -- | 192 | 179 | 12 | 6 | -- | -- |
| JUNE | | | | | | | | | | | |
| 26... | 1.2 | .09 | .01 | -- | -- | 197 | 150 | 16 | 11 | -- | -- |
| JULY | | | | | | | | | | | |
| 24... | 1.1 | .09 | .01 | -- | -- | 309 | 257 | 18 | 11 | -- | -- |
| AUG. | | | | | | | | | | | |
| 21... | .77 | .12 | .02 | -- | -- | 228 | 181 | 27 | 14 | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1.2 | .05 | .06 | -- | -- | 189 | 150 | 12 | 8 | -- | -- |

| DATE | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 10... | 298 | 7.2 | -- | -- | 15 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 07... | 337 | 7.3 | -- | -- | 14 | -- | .0 | 0 | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 05... | 330 | 7.0 | -- | -- | 23 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 06... | 371 | 7.3 | -- | -- | 13 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 01... | 289 | 7.5 | -- | -- | 25 | -- | .0 | -- | -- | -- | -- |
| 29... | 280 | 7.3 | -- | -- | 16 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 26... | 300 | 7.6 | -- | -- | 18 | -- | .0 | 0 | 10 | 94 | <.5 |
| JULY | | | | | | | | | | | |
| 24... | 306 | 7.3 | 4 | 20 | 24 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 21... | 297 | -- | 6 | 20 | 28 | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 270 | -- | 7 | 9 | 26 | 10 | -- | 1 | 10 | 3 | <.5 |

## 01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, at gaging station at bridge on Fair Street at intersection with Main Street in Margaretville, and 1.6 mi (2.6 km) downstream from Dry Brook.

DRAINAGE AREA.--163 mi² (422 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 25... | 1100 | 24 | 2.1 | -- | 8.2 | -- | 1.8 | -- | 2.0 | -- | 1.0 |
| NOV. | | | | | | | | | | | |
| 27... | 1100 | 153 | -- | -- | 7.0 | -- | 2.0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 18... | 1030 | 380 | -- | -- | 5.5 | -- | 1.4 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 22... | 1100 | 505 | 3.1 | -- | 5.7 | -- | 1.2 | -- | 2.5 | -- | .8 |
| FEB. | | | | | | | | | | | |
| 22... | 1010 | 228 | -- | -- | 6.2 | -- | 1.1 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | 1030 | 400 | -- | -- | 6.0 | -- | 1.2 | -- | -- | -- | -- |
| 23... | 1105 | 445 | -- | 4.8 | -- | .7 | -- | 1.4 | -- | .6 | -- |
| MAY | | | | | | | | | | | |
| 22... | 1115 | 272 | -- | 10 | -- | 1.1 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 18... | 11[illegible]0 | 218 | -- | 6.1 | -- | 1.3 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 30... | 1230 | 520 | 2.9 | 11 | -- | 1.0 | -- | 1.5 | -- | 1.4 | -- |
| AUG. | | | | | | | | | | | |
| 27... | 1140 | 64 | -- | 8.3 | -- | 1.6 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1030 | 15[illegible] | -- | 7.7 | -- | 1.8 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 25... | 23 | 0 | 19 | 9.0 | 4.5 | -- | .3 | .14 | .00 | .14 | .00 |
| NOV. | | | | | | | | | | | |
| 27... | 17 | 0 | 14 | -- | -- | -- | -- | .48 | .00 | .48 | .12 |
| DEC. | | | | | | | | | | | |
| 18... | 10 | 0 | 8 | -- | -- | -- | -- | .58 | .00 | .58 | .01 |
| JAN. | | | | | | | | | | | |
| 22... | 11 | 0 | 9 | 8.4 | 4.1 | -- | .0 | .51 | .03 | .54 | .05 |
| FEB. | | | | | | | | | | | |
| 22... | 13 | 0 | 11 | -- | -- | -- | -- | .46 | .00 | .46 | .03 |
| APR. | | | | | | | | | | | |
| 02... | 11 | 0 | 9 | -- | -- | -- | -- | .33 | .01 | .34 | .00 |
| 23... | 11 | 0 | 9 | 8.2 | 2.1 | .2 | -- | .32 | .02 | .34 | .12 |
| MAY | | | | | | | | | | | |
| 22... | 13 | 0 | 11 | -- | -- | -- | -- | .19 | .01 | .20 | .04 |
| JUNE | | | | | | | | | | | |
| 18... | 18 | 0 | 15 | -- | -- | -- | -- | .34 | .01 | .35 | .09 |
| JULY | | | | | | | | | | | |
| 30... | 16 | 0 | 13 | 9.6 | 2.2 | .2 | -- | .35 | .02 | .37 | .28 |
| AUG. | | | | | | | | | | | |
| 27... | 22 | 0 | 18 | -- | -- | -- | -- | .19 | .00 | .19 | .08 |
| SEP. | | | | | | | | | | | |
| 18... | 18 | 0 | 15 | -- | -- | -- | -- | .19 | .00 | .19 | .04 |

## 01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | .08 | .08 | .22 | .00 | -- | .00 | 40 | 0 | 42 | 28 |
| NOV. | | | | | | | | | | |
| 27... | .19 | .31 | .79 | .01 | -- | .00 | -- | 4 | 60 | 26 |
| DEC. | | | | | | | | | | |
| 18... | .18 | .19 | .77 | .01 | -- | .00 | -- | 6 | 45 | 20 |
| JAN. | | | | | | | | | | |
| 22... | .33 | .38 | .92 | .03 | -- | .01 | 31 | 5 | 26 | 19 |
| FEB. | | | | | | | | | | |
| 22... | .04 | .07 | .53 | .02 | -- | .00 | -- | 8 | 35 | 20 |
| APR. | | | | | | | | | | |
| 02... | .04 | .04 | .38 | .01 | -- | .01 | -- | 0 | 35 | 20 |
| 23... | .01 | .13 | .47 | .02 | .01 | -- | -- | 4 | 32 | -- |
| MAY | | | | | | | | | | |
| 22... | .09 | .13 | .33 | .01 | .01 | -- | -- | 6 | 51 | -- |
| JUNE | | | | | | | | | | |
| 18... | .13 | .22 | .57 | .02 | .01 | -- | -- | 2 | 41 | -- |
| JULY | | | | | | | | | | |
| 30... | .44 | .72 | 1.1 | .12 | .06 | -- | -- | 46 | 90 | -- |
| AUG. | | | | | | | | | | |
| 27... | .06 | .14 | .33 | .01 | .01 | -- | -- | 0 | 51 | -- |
| SEP. | | | | | | | | | | |
| 18... | .03 | .07 | .26 | .01 | .01 | -- | -- | 1 | 43 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | 9 | 83 | 7.1 | 11.0 | 10.8 | 99 | .6 | 1.8 | -- | 62 |
| NOV. | | | | | | | | | | |
| 27... | 12 | 70 | 6.5 | 7.0 | 11.0 | 96 | .5 | 2.5 | -- | 68 |
| DEC. | | | | | | | | | | |
| 18... | 11 | 60 | 6.3 | .0 | 13.8 | 96 | -- | 1.1 | -- | 38 |
| JAN. | | | | | | | | | | |
| 22... | 10 | 64 | 6.6 | 2.0 | 13.0 | 93 | 2.9 | 1.9 | -- | B610 |
| FEB. | | | | | | | | | | |
| 22... | 9 | 65 | 6.2 | 3.0 | 12.2 | 92 | .0 | 3.8 | -- | 96 |
| APR. | | | | | | | | | | |
| 02... | 11 | 55 | 6.4 | 4.0 | 12.3 | 95 | 2.1 | 14 | -- | 140 |
| 23... | -- | 45 | 6.2 | 9.0 | 10.9 | 95 | .3 | 5.0 | 6.4 | 13 |
| MAY | | | | | | | | | | |
| 22... | -- | 52 | 7.0 | 14.0 | 10.4 | 102 | .7 | 2.2 | 4.0 | 56 |
| JUNE | | | | | | | | | | |
| 18... | -- | 59 | 7.0 | 15.0 | 10.0 | 100 | 2.0 | .5 | 1.7 | B550 |
| JULY | | | | | | | | | | |
| 30... | -- | 57 | 7.0 | 19.0 | 8.0 | 88 | -- | 4.0 | 1.0 | B6000 |
| AUG. | | | | | | | | | | |
| 27... | -- | 79 | 7.1 | 8.0 | 9.8 | 104 | .8 | 2.8 | 2.4 | B320 |
| SEP. | | | | | | | | | | |
| 18... | -- | 71 | 6.9 | 14.0 | 10.5 | 103 | 1.0 | 6.5 | 7.0 | 180 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, at gaging station 0.5 mi (0.8 km) downstream from Downsville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi (1.6 km) east of Downsville.

DRAINAGE AREA.--371 $mi^2$ (961 $km^2$).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 25... | 1310 | 20 | 2.5 | -- | 6.0 | -- | 1.4 | -- | 1.0 | -- | .9 |
| NOV. | | | | | | | | | | | |
| 27... | 1305 | 6.9 | -- | -- | 5.5 | -- | 1.7 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 18... | 1205 | 6.9 | -- | -- | 5.5 | -- | 1.5 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 22... | 1230 | 7.8 | 1.6 | -- | 6.0 | -- | 1.5 | -- | 2.0 | -- | .7 |
| FEB. | | | | | | | | | | | |
| 22... | 0855 | 8.0 | -- | -- | 6.0 | -- | 1.4 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | 1255 | 268 | -- | -- | 5.5 | -- | 1.4 | -- | -- | -- | -- |
| 23... | 1255 | 410 | -- | 4.3 | -- | 1.2 | -- | 1.5 | -- | .7 | -- |
| MAY | | | | | | | | | | | |
| 22... | 1345 | 195 | -- | 5.0 | -- | 1.1 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 18... | 1330 | 16 | -- | 10 | -- | 2.3 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 30... | 1445 | 18 | 1.9 | 5.1 | -- | 1.4 | -- | 1.5 | -- | .7 | -- |
| AUG. | | | | | | | | | | | |
| 27... | 1345 | 18 | -- | 5.7 | -- | 1.1 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1215 | 18 | -- | 8.0 | -- | 1.4 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 25... | 14 | 0 | 11 | 9.0 | 2.1 | -- | .4 | .40 | .00 | .41 | .24 |
| NOV. | | | | | | | | | | | |
| 27... | 14 | 0 | 11 | -- | -- | -- | -- | .41 | .00 | .41 | .02 |
| DEC. | | | | | | | | | | | |
| 18... | 14 | 0 | 11 | -- | -- | -- | -- | .37 | .00 | .37 | .01 |
| JAN. | | | | | | | | | | | |
| 22... | 14 | 0 | 11 | 8.6 | 2.4 | -- | .1 | .30 | .00 | .30 | .03 |
| FEB. | | | | | | | | | | | |
| 22... | 13 | 0 | 11 | -- | -- | -- | -- | .32 | .00 | .32 | .01 |
| APR. | | | | | | | | | | | |
| 02... | 10 | 0 | 8 | -- | -- | -- | -- | .28 | .01 | .29 | .03 |
| 23... | 10 | 0 | 8 | 8.5 | 2.3 | .1 | -- | .28 | .00 | .28 | .06 |
| MAY | | | | | | | | | | | |
| 22... | 11 | 0 | 9 | -- | -- | -- | -- | .26 | .01 | .27 | .04 |
| JUNE | | | | | | | | | | | |
| 18... | 26 | 0 | 21 | -- | -- | -- | -- | .13 | .01 | .14 | .06 |
| JULY | | | | | | | | | | | |
| 30... | 7 | 0 | 6 | 9.2 | 2.2 | .3 | -- | .33 | .01 | .34 | .01 |
| AUG. | | | | | | | | | | | |
| 27... | 8 | 0 | 7 | -- | -- | -- | -- | .34 | .00 | .34 | .00 |
| SEP. | | | | | | | | | | | |
| 18... | 10 | 0 | 8 | -- | -- | -- | -- | .36 | .00 | .36 | .00 |

## 01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | .96 | 1. | 1.6 | .12 | -- | .03 | 30 | 8 | 36 | 21 |
| NOV. | | | | | | | | | | |
| 27... | .00 | .02 | .43 | .00 | -- | .00 | -- | 5 | 53 | 21 |
| DEC. | | | | | | | | | | |
| 18... | .05 | .06 | .43 | .00 | -- | .00 | -- | 5 | 43 | 20 |
| JAN. | | | | | | | | | | |
| 22... | .24 | .27 | .57 | .01 | -- | .00 | 30 | 4 | -- | 21 |
| FEB. | | | | | | | | | | |
| 22... | .15 | .16 | .48 | .01 | -- | .00 | -- | 0 | 32 | 21 |
| APR. | | | | | | | | | | |
| 02... | .05 | .08 | .37 | .01 | -- | .00 | -- | 2 | 34 | 20 |
| 23... | .04 | .10 | .38 | .01 | .00 | -- | -- | 4 | -- | -- |
| MAY | | | | | | | | | | |
| 22... | .31 | .35 | .62 | .02 | .00 | -- | -- | 3 | 50 | -- |
| JUNE | | | | | | | | | | |
| 18... | .30 | .36 | .50 | .02 | .01 | -- | -- | 2 | 55 | -- |
| JULY | | | | | | | | | | |
| 30... | .16 | .17 | .51 | .01 | .01 | -- | -- | 5 | 38 | -- |
| AUG. | | | | | | | | | | |
| 27... | .05 | .05 | .39 | .01 | .00 | -- | -- | 1 | 30 | -- |
| SEP. | | | | | | | | | | |
| 18... | .10 | .10 | .46 | .02 | .01 | -- | -- | 0 | 34 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | 9 | 60 | 6.8 | 7.0 | 12.7 | 106 | .6 | .9 | -- | <1 |
| NOV. | | | | | | | | | | |
| 27... | 9 | 58 | 6.7 | 7.0 | 11.0 | 92 | 1.4 | .7 | -- | <1 |
| DEC. | | | | | | | | | | |
| 18... | 8 | 64 | 6.2 | .0 | 13.0 | 90 | 2.2 | 2.9 | -- | <1 |
| JAN. | | | | | | | | | | |
| 22... | 10 | 60 | 5.9 | 4.0 | 12.9 | 98 | 1.8 | 1.5 | -- | <1 |
| FEB. | | | | | | | | | | |
| 22... | 10 | 61 | 6.7 | 3.0 | 11.8 | 89 | .0 | 1.7 | -- | <1 |
| APR. | | | | | | | | | | |
| 02... | 11 | 50 | 6.1 | 6.0 | 12.0 | 97 | 1.4 | 4.3 | -- | <1 |
| 23... | -- | 50 | 6.5 | 5.0 | 13.0 | 103 | -- | 5.7 | 13 | <1 |
| MAY | | | | | | | | | | |
| 22... | -- | 48 | 7.0 | 14.0 | 10.1 | 99 | .6 | 1.5 | 2.3 | <1 |
| JUNE | | | | | | | | | | |
| 18... | -- | 58 | 7.0 | 7.0 | 12.0 | 100 | .6 | .8 | 5.5 | 81 |
| JULY | | | | | | | | | | |
| 30... | -- | 56 | 7.0 | 7.0 | 11.0 | 90 | -- | 2.4 | 3.6 | B30 |
| AUG. | | | | | | | | | | |
| 27... | -- | 56 | 7.7 | 8.0 | 13.0 | 111 | 1.1 | .0 | 3.6 | B11 |
| SEP. | | | | | | | | | | |
| 18... | -- | 57 | 7.3 | 6.0 | 12.3 | 100 | .2 | 4.5 | 4.0 | <1 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, at gaging station 125 ft (38 m) downstream from highway bridge in Cooks Falls, and 5.5 mi (8.8 km) downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi$^2$ (624 km$^2$).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 1415 | 85 | 1.5 | 20 | 0 | -- | 6.7 | -- | 1.3 | -- | 4.5 |
| NOV. 19... | 1245 | 211 | 1.7 | 10 | 0 | -- | 6.0 | -- | 1.0 | -- | 2.7 |
| DEC. 19... | 1400 | 532 | 2.3 | 20 | 20 | -- | 5.5 | -- | 1.0 | -- | 1.5 |
| JAN. 22... | 1430 | 895 | 2.1 | 130 | 30 | -- | 5.0 | -- | 1.0 | -- | 3.0 |
| FEB. 20... | 1530 | 472 | 1.9 | 80 | 20 | -- | 5.5 | -- | .8 | -- | 3.5 |
| MAR. 21... | 1430 | 920 | 1.8 | 140 | 30 | -- | 5.1 | -- | .9 | -- | 4.2 |
| APR. 17... | 1445 | 1410 | 1.6 | 160 | 20 | 3.6 | -- | .8 | -- | 1.1 | -- |
| MAY 16... | 1050 | 1120 | 1.9 | 80 | 30 | 4.8 | -- | .9 | -- | 1.4 | -- |
| JUNE 27... | 0930 | 478 | 2.0 | 110 | 20 | 5.6 | -- | 1.0 | -- | 1.6 | -- |
| JULY 23... | 1700 | 117 | -- | 160 | 40 | 7.5 | -- | 1.2 | -- | 4.5 | -- |
| AUG. 22... | 1345 | 94 | -- | 40 | 30 | 8.5 | -- | 1.3 | -- | 4.0 | -- |
| SEP. 18... | 1530 | 209 | -- | 160 | 40 | 6.3 | -- | .9 | -- | 2.0 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | -- | .7 | 17 | 0 | 14 | 8.0 | 7.0 | -- | .3 | .10 | .00 |
| NOV. 19... | -- | .6 | 11 | 0 | 9 | 7.6 | 4.2 | -- | .1 | .27 | .00 |
| DEC. 19... | -- | .5 | 8 | 0 | 7 | 8.7 | 2.4 | -- | -- | .51 | .00 |
| JAN. 22... | -- | .5 | 6 | 0 | 5 | 7.4 | 5.6 | -- | .0 | .47 | .01 |
| FEB. 20... | -- | .5 | 9 | 0 | 7 | 8.1 | 6.8 | -- | .1 | .48 | .00 |
| MAR. 21... | -- | .5 | 7 | 0 | 6 | 7.8 | 7.9 | -- | .2 | .41 | .00 |
| APR. 17... | .5 | -- | 6 | 0 | 5 | 7.5 | 2.2 | .2 | -- | .38 | .01 |
| MAY 16... | .5 | -- | 6 | 0 | 5 | 8.1 | 1.5 | .1 | -- | .30 | .01 |
| JUNE 27... | .4 | -- | 10 | 0 | 8 | 8.5 | 2.2 | .1 | -- | .19 | .02 |
| JULY 23... | .3 | -- | 13 | 0 | 11 | 9.3 | 7.4 | -- | -- | .18 | .01 |
| AUG. 22... | 1.2 | -- | 15 | 0 | 12 | 8.5 | 6.7 | -- | -- | .21 | .00 |
| SEP. 18... | .4 | -- | 14 | 0 | 11 | 7.1 | 2.5 | -- | -- | .13 | .00 |

## 01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | .01 | .07 | .08 | .18 | .06 | -- | .01 | 38 | 55 | 38 |
| NOV. 19... | .04 | .16 | .20 | .47 | .00 | -- | .00 | 29 | 42 | 20 |
| DEC. 19... | .01 | .03 | .04 | .56 | .01 | -- | .01 | 26 | 26 | 16 |
| JAN. 22... | .06 | -- | .05 | .53 | .02 | -- | .01 | 28 | 50 | 12 |
| FEB. 20... | .01 | .15 | .16 | .64 | .01 | -- | .00 | 32 | 41 | 32 |
| MAR. 21... | .05 | .09 | .14 | .55 | .01 | -- | .01 | 32 | 45 | 34 |
| APR. 17... | .02 | .05 | .07 | .46 | .01 | .00 | -- | -- | 27 | 26 |
| MAY 16... | .02 | .14 | .16 | .47 | .01 | .00 | -- | -- | 35 | 12 |
| JUNE 27... | .01 | .14 | .15 | .36 | .01 | .00 | -- | -- | 35 | 20 |
| JULY 23... | .16 | .00 | .16 | .35 | .02 | .01 | -- | -- | 47 | 28 |
| AUG. 22... | .09 | .00 | .09 | .30 | .03 | .02 | -- | -- | 53 | 2 |
| SEP. 18... | .05 | .27 | .32 | .45 | .03 | .01 | -- | -- | 32 | 11 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 0 | 0 | 22 | 8 | 74 | 7.7 | 11.5 | -- | -- | 10.8 |
| NOV. 19... | 11 | 0 | 18 | 9 | 58 | 7.3 | 6.5 | -- | -- | 12.0 |
| DEC. 19... | 4 | 3 | 16 | 9 | 52 | 6.8 | .0 | -- | -- | -- |
| JAN. 22... | 1 | 0 | 14 | 9 | 56 | 6.5 | .0 | -- | -- | 14.4 |
| FEB. 20... | 3 | 2 | 15 | 8 | 63 | 6.8 | .0 | -- | -- | 13.8 |
| MAR. 21... | 9 | 6 | 14 | 8 | 61 | 6.7 | 1.0 | -- | -- | 9.9 |
| APR. 17... | 3 | 1 | -- | -- | 74 | 6.9 | 8.0 | -- | -- | 13.0 |
| MAY 16... | 3 | 1 | -- | -- | 48 | 6.5 | 12.0 | -- | -- | 10.5 |
| JUNE 27... | 2 | 1 | -- | -- | 41 | 6.7 | 14.0 | -- | -- | 11.1 |
| JULY 23... | 1 | 0 | -- | -- | 74 | -- | 20.0 | 1 | 1 | 9.6 |
| AUG. 22... | 0 | 4 | -- | -- | 75 | -- | 23.0 | 1 | 2 | 9.6 |
| SEP. 18... | 2 | 1 | -- | -- | 65 | -- | 14.0 | 0 | 3 | 10.6 |

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## 01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER- CENT SATUR- ATION | CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME- DIATE COLI- FORM (COL. PER 100 ML) | FECAL COLI- FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 24... | 97 | 5 | B150 | B3 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 19... | 97 | 25 | B90 | 14 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 19... | -- | 3 | -- | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 22... | 104 | 4 | B100 | 20 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 20... | 98 | 2 | 170 | 23 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 21... | 81 | 4 | B81 | B10 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 17... | 115 | 4 | B6 | <1 | -- | .0 | 1 | 10 | 0 | <.5 |
| MAY | | | | | | | | | | |
| 16... | 105 | 5 | 430 | B7 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 27... | 106 | 4 | B740 | 90 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 23... | 105 | 5 | 2800 | 43 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 22... | 108 | 5 | -- | B15 | 1.7 | -- | 1 | 0 | 2 | <.5 |
| SEP. | | | | | | | | | | |
| 18... | 109 | 3 | -- | B7 | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, temperature recorder at gaging station on left bank 3,000 ft (914 m) upstream from bridge on County Highway 28, at Fishs Eddy, 0.6 mi (1.0 km) upstream from Fish Creek, 4.2 mi (6.8 km) downstream from Beaver Kill and 11 mi (18 km) upstream from the confluence of East and West Branches at Hancock.

DRAINAGE AREA.--783 mi² (2,028 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1974.
Water temperatures: November 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.0°C Aug. 14; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 31.0°C July 16-18, 1968; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 24... | 1210 | 133 | 1.5 | 10 | 0 | -- | 7.1 | -- | 1.6 | -- | 4.2 |
| NOV. | | | | | | | | | | | |
| 19... | 1115 | 342 | 1.9 | 10 | 0 | -- | 6.5 | -- | 1.2 | -- | 2.2 |
| DEC. | | | | | | | | | | | |
| 18... | 1145 | 1200 | 2.3 | 1300 | 90 | -- | 5.0 | -- | 1.2 | -- | 1.3 |
| JAN. | | | | | | | | | | | |
| 22... | 1145 | E1350 | 2.2 | 170 | 30 | -- | 5.5 | -- | 1.2 | -- | 5.0 |
| FEB. | | | | | | | | | | | |
| 20... | 1300 | 3160 | 1.8 | 40 | 0 | -- | 5.6 | -- | 1.1 | -- | 3.7 |
| MAR. | | | | | | | | | | | |
| 21... | 1300 | 1400 | 1.7 | 170 | 40 | -- | 5.0 | -- | 1.8 | -- | 1.9 |
| APR. | | | | | | | | | | | |
| 17... | 1230 | 4440 | 1.6 | 190 | 20 | 5.6 | -- | 1.2 | -- | 1.0 | -- |
| MAY | | | | | | | | | | | |
| 16... | 1230 | 2820 | 1.7 | 90 | 30 | 5.3 | -- | 1.0 | -- | 1.5 | -- |
| JUNE | | | | | | | | | | | |
| 27... | 1230 | 606 | 1.8 | 100 | 0 | 5.5 | -- | 1.2 | -- | 3.0 | -- |
| JULY | | | | | | | | | | | |
| 23... | 1400 | 176 | -- | 90 | 20 | 6.5 | -- | 1.3 | -- | 3.0 | -- |
| AUG. | | | | | | | | | | | |
| 22... | 1110 | 140 | -- | 60 | 40 | 8.0 | -- | 1.4 | -- | 3.0 | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1730 | 300 | -- | 250 | 70 | 7.0 | -- | 1.3 | -- | 2.2 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 24... | -- | .6 | 20 | 0 | 16 | 6.7 | 6.0 | -- | .2 | .08 | .00 |
| NOV. | | | | | | | | | | | |
| 19... | -- | .6 | 13 | 0 | 11 | 7.4 | 3.6 | -- | .2 | .26 | .00 |
| DEC. | | | | | | | | | | | |
| 18... | -- | .9 | 8 | 0 | 7 | 8.4 | 2.4 | -- | .2 | .54 | .00 |
| JAN. | | | | | | | | | | | |
| 22... | -- | .5 | 9 | 0 | 7 | 8.1 | 9.2 | -- | .1 | .49 | .00 |
| FEB. | | | | | | | | | | | |
| 20... | -- | .6 | 10 | 0 | 8 | 8.5 | 7.3 | -- | .2 | .44 | .00 |
| MAR. | | | | | | | | | | | |
| 21... | -- | .5 | 7 | 0 | 6 | 8.4 | 3.8 | -- | .1 | .35 | .00 |
| APR. | | | | | | | | | | | |
| 17... | .6 | -- | 8 | 0 | 7 | 8.0 | 1.8 | .1 | -- | .31 | .01 |
| MAY | | | | | | | | | | | |
| 16... | .6 | -- | 9 | 0 | 7 | 8.7 | 1.5 | .1 | -- | .27 | .01 |
| JUNE | | | | | | | | | | | |
| 27... | .5 | -- | 12 | 0 | 10 | 8.9 | 3.2 | .1 | -- | .16 | .02 |
| JULY | | | | | | | | | | | |
| 23... | .6 | -- | 17 | 0 | 14 | 9.3 | 3.3 | -- | -- | .09 | .01 |
| AUG. | | | | | | | | | | | |
| 22... | 1.3 | -- | 18 | 0 | 15 | 9.1 | 5.0 | -- | -- | .08 | .00 |
| SEP. | | | | | | | | | | | |
| 18... | .4 | -- | 15 | 0 | 12 | 7.4 | 2.8 | -- | -- | .08 | .00 |

E Estimated value.

CONTINUED NEXT PAGE

## 01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | .04 | .09 | .13 | .22 | .00 | -- | .00 | 38 | 46 | 22 |
| NOV. 19... | .04 | .20 | .24 | .50 | .00 | -- | .00 | 30 | 44 | 28 |
| DEC. 18... | .04 | .10 | .14 | .68 | .01 | -- | .00 | 26 | 48 | 25 |
| JAN. 22... | .08 | .05 | .13 | .62 | .01 | -- | .00 | 36 | 60 | 26 |
| FEB. 20... | .01 | .01 | .02 | .45 | .01 | -- | .00 | 36 | 45 | 29 |
| MAR. 21... | .04 | .06 | .10 | .45 | .01 | -- | .00 | 26 | 50 | 38 |
| APR. 17... | .01 | .09 | .10 | .42 | .01 | .00 | -- | -- | 35 | 25 |
| MAY 16... | .02 | .44 | .46 | .74 | .01 | .00 | -- | -- | 33 | 16 |
| JUNE 27... | .01 | .15 | .16 | .34 | .01 | .00 | -- | -- | 33 | 24 |
| JULY 23... | .13 | .00 | .09 | .19 | .01 | .01 | -- | -- | 42 | 29 |
| AUG. 22... | .06 | .02 | .08 | .16 | .01 | .01 | -- | -- | 54 | 52 |
| SEP. 18... | .05 | .02 | .07 | .15 | .02 | .01 | -- | -- | 36 | 17 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 17 | 2 | 24 | 8 | 76 | 7.0 | 11.0 | -- | -- | 11.2 |
| NOV. 19... | 2 | 2 | 21 | 11 | 59 | 7.1 | 6.0 | -- | -- | 11.6 |
| DEC. 18... | 9 | 8 | 17 | 11 | 55 | 6.9 | .0 | -- | -- | 14.6 |
| JAN. 22... | 0 | 0 | 19 | 11 | 75 | 6.8 | .0 | -- | -- | -- |
| FEB. 20... | 0 | 0 | 19 | 10 | 69 | 6.8 | .0 | -- | -- | 13.4 |
| MAR. 21... | 4 | 3 | 17 | 11 | 48 | 6.6 | 2.0 | -- | -- | 15.0 |
| APR. 17... | 1 | 0 | -- | -- | 49 | 6.9 | 5.5 | -- | -- | 13.7 |
| MAY 16... | 6 | 1 | -- | -- | 52 | 7.5 | 12.0 | -- | -- | 11.8 |
| JUNE 27... | 1 | 0 | -- | -- | 48 | 8.1 | 17.0 | -- | -- | 10.8 |
| JULY 23... | 4 | 2 | -- | -- | 66 | -- | 22.5 | 0 | 1 | 10.6 |
| AUG. 22... | 1 | 0 | -- | -- | 70 | -- | 23.0 | 0 | 2 | 9.7 |
| SEP. 18... | 1 | 0 | -- | -- | 68 | -- | 16.5 | 0 | 20 | 11.1 |

## 01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 24... | 101 | 2 | B150 | 88 | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 19... | 93 | 3 | 84 | 84 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 18... | 101 | 2 | -- | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 22... | -- | 3 | 620 | 8200 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 20... | 98 | 2 | 96 | 42 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 21... | 95 | 6 | 53 | 20 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 17... | 106 | 4 | 88 | <1 | -- | .0 | <1 | 10 | 1 | <.5 |
| MAY | | | | | | | | | | |
| 16... | 118 | 5 | 46 | 86 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 27... | 111 | 4 | 230 | 816 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 23... | 114 | 5 | 4800 | 810 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 22... | 112 | 5 | -- | 89 | 1.3 | -- | <1 | 8 | 1 | <.5 |
| SEP. | | | | | | | | | | |
| 18... | 113 | 4 | -- | 21 | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

### 01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 16.0 | 13.0 | 10.0 | 8.0 | 4.5 | 2.0 | 2.0 | 1.0 | 3.0 | 0.0 | 2.0 | 1.5 |
| 2 | 15.0 | 14.5 | 10.0 | 7.0 | 2.0 | 1.0 | 1.5 | 0.0 | 0.5 | 0.0 | 2.0 | 1.0 |
| 3 | 19.0 | 15.0 | 9.5 | 6.5 | 3.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 3.0 | 1.5 |
| 4 | 19.0 | 17.0 | 6.5 | 4.5 | 4.5 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 | 4.0 | 3.0 |
| 5 | 19.0 | 15.5 | 5.0 | 4.0 | 9.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 3.5 |
| 6 | 16.5 | 13.0 | 4.5 | 1.5 | 8.5 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 2.0 |
| 7 | 15.0 | 13.5 | 3.0 | 1.5 | 6.0 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 4.0 |
| 8 | 15.5 | 13.0 | 3.5 | 1.5 | 5.0 | 4.0 | 0.0 | 0.0 | 1.5 | 0.0 | 5.0 | 3.0 |
| 9 | 16.0 | 14.0 | 3.5 | 1.0 | 6.0 | 4.0 | 0.0 | 0.0 | 1.0 | 0.0 | 3.5 | 2.0 |
| 10 | 18.5 | 15.5 | 1.5 | 0.0 | 6.5 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 2.0 |
| 11 | 16.0 | 14.0 | 1.5 | 0.5 | 6.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.5 |
| 12 | 15.5 | 13.0 | 3.0 | 1.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 1.0 |
| 13 | 15.5 | 13.0 | 5.0 | 3.0 | 4.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 |
| 14 | 15.5 | 13.0 | 8.5 | 5.0 | 4.5 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 |
| 15 | 14.0 | 11.0 | 9.0 | 6.5 | 3.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 |
| 16 | 11.5 | 9.5 | 9.0 | 5.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 2.0 |
| 17 | 10.0 | 8.5 | 5.5 | 3.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 |
| 18 | 8.5 | 8.0 | 4.0 | 2.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 |
| 19 | 9.5 | 7.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.5 |
| 20 | 11.0 | 8.5 | 4.5 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.5 |
| 21 | 12.0 | 9.0 | 4.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 1.0 |
| 22 | 11.5 | 9.0 | 6.5 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 |
| 23 | 12.0 | 8.5 | 6.5 | 5.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 5.5 | 1.0 |
| 24 | 12.0 | 8.5 | 6.5 | 5.5 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 4.5 | 1.5 |
| 25 | 12.0 | 8.5 | 7.0 | 6.5 | 0.5 | 0.0 | 0.0 | 0.0 | 1.5 | 0.5 | 3.0 | 0.0 |
| 26 | 13.0 | 9.5 | 6.5 | 5.5 | 3.0 | 0.5 | 0.0 | 0.0 | 1.0 | 0.0 | 3.5 | 0.5 |
| 27 | 11.5 | 9.5 | 6.5 | 5.0 | 4.0 | 3.0 | 3.0 | 0.0 | 1.5 | 0.0 | 4.5 | 0.5 |
| 28 | 9.5 | 8.5 | 8.5 | 6.5 | 4.0 | 3.0 | 3.0 | 1.5 | 2.0 | 0.0 | 4.5 | 1.0 |
| 29 | 9.5 | 8.5 | 8.0 | 4.5 | 3.5 | 2.0 | 3.0 | 2.0 | --- | --- | 3.0 | 0.0 |
| 30 | 10.5 | 9.5 | 5.0 | 4.0 | 3.5 | 1.5 | 4.0 | 1.5 | --- | --- | 1.0 | 0.0 |
| 31 | 10.5 | 8.0 | --- | --- | 1.5 | 1.0 | 4.0 | 1.5 | --- | --- | 3.0 | 1.0 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | --- | --- | 15.5 | 12.0 | 15.5 | 14.5 | 23.5 | 18.5 | 24.5 | 20.0 | 22.0 | 18.5 |
| 2 | --- | --- | 13.5 | 9.0 | 15.0 | 13.0 | 24.0 | 18.5 | 24.5 | 20.5 | 20.5 | 18.5 |
| 3 | --- | --- | 11.5 | 9.5 | 17.0 | 13.0 | 25.0 | 20.5 | 24.0 | 21.5 | 18.5 | 15.5 |
| 4 | --- | --- | 13.0 | 8.0 | 19.5 | 14.5 | 27.0 | 21.0 | 24.5 | 21.5 | 15.5 | 14.0 |
| 5 | --- | --- | 13.0 | 7.0 | 21.0 | 16.0 | 25.5 | 22.0 | 24.0 | 21.0 | 18.0 | 13.0 |
| 6 | --- | --- | 10.5 | 8.0 | 21.5 | 16.5 | 26.5 | 20.5 | 25.0 | 20.0 | 16.0 | 14.5 |
| 7 | --- | --- | 8.0 | 6.5 | 21.5 | 16.0 | 27.0 | 21.0 | 24.5 | 20.5 | 17.0 | 14.0 |
| 8 | --- | --- | 11.0 | 6.5 | 24.0 | 17.0 | 28.5 | 22.0 | 25.0 | 20.5 | 20.0 | 15.0 |
| 9 | 3.0 | 0.0 | 10.5 | 9.5 | 24.0 | 18.0 | 28.5 | 24.5 | 24.0 | 21.5 | 20.5 | 16.5 |
| 10 | 5.0 | 1.0 | 10.0 | 9.0 | 27.0 | 20.5 | 28.0 | 21.0 | 26.0 | 21.0 | 21.0 | 18.0 |
| 11 | 6.5 | 2.0 | 14.5 | 8.0 | 25.0 | 21.5 | 25.0 | 20.0 | 26.0 | 20.5 | 21.5 | 18.0 |
| 12 | 6.5 | 4.0 | 13.5 | 10.5 | 21.5 | 18.5 | 25.0 | 19.0 | 26.0 | 20.0 | 23.5 | 19.5 |
| 13 | 8.0 | 5.0 | 10.5 | 9.0 | 21.0 | 15.5 | 26.0 | 19.5 | 27.0 | 21.5 | 24.5 | 21.0 |
| 14 | 9.5 | 5.5 | 13.5 | 8.0 | 20.0 | 16.5 | 28.0 | 21.0 | 29.0 | 23.5 | 23.0 | 17.0 |
| 15 | 9.0 | 5.0 | 16.0 | 11.0 | 21.0 | 16.0 | 28.0 | 24.5 | 28.0 | 21.5 | 19.0 | 15.0 |
| 16 | 7.0 | 4.5 | 15.5 | 11.5 | 17.0 | 15.5 | 26.5 | 22.0 | 28.0 | 21.0 | 19.0 | 15.0 |
| 17 | 9.0 | 4.5 | 16.5 | 13.5 | 19.0 | 15.0 | 25.5 | 20.5 | 24.5 | 22.0 | 18.0 | 14.5 |
| 18 | 9.0 | 5.5 | 18.0 | 13.5 | 20.0 | 16.0 | 26.0 | 22.0 | 25.0 | 21.0 | 18.5 | 16.0 |
| 19 | 9.0 | 6.0 | 18.0 | 14.0 | 23.5 | 16.0 | 27.0 | 23.5 | 26.0 | 20.5 | 18.5 | 15.5 |
| 20 | 9.5 | 4.5 | 17.0 | 12.0 | 22.0 | 15.0 | 24.0 | 20.0 | 28.0 | 22.0 | 19.5 | 16.0 |
| 21 | 11.0 | 5.5 | 17.0 | 12.0 | 20.5 | 17.0 | 24.5 | 19.5 | 28.5 | 23.5 | 18.5 | 15.5 |
| 22 | 11.0 | 9.5 | 19.5 | 15.0 | 21.0 | 16.0 | 26.5 | 20.0 | 25.5 | 23.0 | 15.5 | 13.0 |
| 23 | 10.5 | 9.5 | 18.5 | 17.0 | 19.5 | 18.0 | 24.5 | 21.0 | 26.5 | 22.0 | 13.5 | 11.0 |
| 24 | 9.5 | 6.0 | 17.0 | 15.0 | 20.0 | 15.5 | 21.5 | 18.0 | 25.0 | 22.0 | 14.0 | 9.5 |
| 25 | 10.0 | 5.0 | 15.5 | 13.5 | 18.5 | 16.5 | 21.5 | 16.5 | 24.5 | 20.5 | 12.0 | 10.0 |
| 26 | 11.5 | 8.0 | 15.0 | 11.5 | 16.5 | 15.0 | 20.5 | 19.0 | 21.5 | 20.0 | 14.5 | 11.0 |
| 27 | 14.5 | 7.0 | 14.0 | 11.5 | 20.0 | 15.0 | 25.5 | 19.5 | 24.0 | 20.5 | 16.0 | 11.5 |
| 28 | 16.5 | 10.0 | 16.0 | 11.0 | 20.5 | 16.5 | 26.5 | 21.5 | 22.0 | 20.5 | 15.5 | 14.0 |
| 29 | 19.0 | 14.0 | 14.5 | 13.0 | 19.5 | 17.0 | 27.0 | 23.0 | 21.5 | 19.5 | 15.0 | 14.0 |
| 30 | 17.0 | 15.0 | 19.0 | 12.0 | 21.0 | 16.5 | 24.0 | 20.0 | 21.0 | 19.5 | 14.5 | 11.5 |
| 31 | --- | --- | 18.5 | 15.5 | --- | --- | 23.5 | 19.5 | 20.5 | 17.0 | --- | --- |

## 01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'10", long 75°16'37", Delaware County, at former gaging station on bridge on State Highway 97 in Hancock and 1.2 mi (1.9 km) upstream from confluence with West Branch.

DRAINAGE AREA.--838 $mi^2$ (2,170 $km^2$).

PERIOD OF RECORD,--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1645 | 155 | 1.2 | -- | 7.5 | -- | 1.7 | -- | 2.2 | -- |
| NOV. 28... | 1125 | 1490 | -- | -- | 5.7 | -- | 1.5 | -- | -- | -- |
| DEC. 19... | 1340 | 790 | -- | -- | 5.4 | -- | .9 | -- | -- | -- |
| JAN. 23... | 1315 | 1440 | 2.4 | -- | 5.2 | -- | 1.0 | -- | 3.3 | -- |
| FEB. 27... | 0925 | 1650 | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. 03... | 1045 | 2750 | -- | -- | 5.0 | -- | 1.1 | -- | -- | -- |
| 24... | 1055 | 1770 | -- | 4.3 | -- | 1.0 | -- | 1.3 | -- | .6 |
| MAY 23... | 0900 | 1200 | -- | 5.4 | -- | 1.1 | -- | -- | -- | -- |
| JUNE 19... | 1710 | 860 | -- | 10 | -- | 1.0 | -- | -- | -- | -- |
| AUG. 01... | 1230 | 600 | 2.6 | 9.4 | -- | 1.0 | -- | 2.0 | -- | .8 |
| 28... | 1220 | 280 | -- | 6.7 | -- | 1.1 | -- | -- | -- | -- |
| SEP. 19... | 0845 | 400 | -- | 7.4 | -- | 1.6 | -- | -- | -- | -- |

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .7 | 20 | 0 | 16 | 9.0 | 5.5 | -- | .3 | .04 | .00 |
| NOV. 28... | -- | 11 | 0 | 9 | -- | -- | -- | -- | .40 | .00 |
| DEC. 19... | -- | 8 | 0 | 7 | -- | -- | -- | -- | .53 | .00 |
| JAN. 23... | .5 | 8 | 0 | 7 | 7.8 | 5.7 | -- | .1 | .44 | .00 |
| FEB. 27... | -- | 5 | 0 | 4 | -- | -- | -- | -- | .44 | .01 |
| APR. 03... | -- | 8 | 0 | 7 | -- | -- | -- | -- | .32 | .01 |
| 24... | -- | 10 | 0 | 8 | 8.8 | 2.4 | .2 | -- | .31 | .00 |
| MAY 23... | -- | 11 | 0 | 9 | -- | -- | -- | -- | .23 | .01 |
| JUNE 19... | -- | 10 | 0 | 8 | -- | -- | -- | -- | .14 | .01 |
| AUG. 01... | -- | 11 | 0 | 9 | 10 | 2.7 | .3 | -- | .21 | .01 |
| 28... | -- | 14 | 0 | 11 | -- | -- | -- | -- | .07 | .00 |
| SEP. 19... | -- | 14 | 0 | 11 | -- | -- | -- | -- | .04 | .00 |

CONTINUED NEXT PAGE

### 01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | .04 | .01 | .10 | .11 | .15 | .00 | -- | .00 | 38 | -- |
| NOV.<br>28... | .40 | .10 | .14 | .24 | .64 | .00 | -- | .00 | -- | 6 |
| DEC.<br>19... | .53 | .02 | -- | .01 | .54 | .00 | -- | .00 | -- | 7 |
| JAN.<br>23... | .44 | .03 | .04 | .07 | .51 | .01 | -- | .00 | 30 | 8 |
| FEB.<br>27... | .45 | .03 | .04 | .07 | .52 | .01 | -- | .00 | -- | 0 |
| APR.<br>03... | .33 | .01 | .04 | .05 | .38 | .01 | -- | .01 | -- | 5 |
| 24... | .31 | .05 | .05 | .10 | .41 | .01 | .00 | -- | -- | 5 |
| MAY<br>23... | .24 | .03 | .10 | .13 | .37 | .01 | .00 | -- | -- | 4 |
| JUNE<br>19... | .15 | .17 | .02 | .19 | .34 | .01 | .00 | -- | -- | 2 |
| AUG.<br>01... | .22 | .07 | .06 | .13 | .35 | .02 | .01 | -- | -- | 11 |
| 28... | .07 | .08 | .06 | .14 | .21 | .01 | .01 | -- | -- | 1 |
| SEP.<br>19... | .04 | .04 | .06 | .10 | .14 | .00 | .01 | -- | -- | 1 |

| DATE | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | 45 | 26 | 9 | 93 | 6.8 | 10.0 | 10.4 | 93 | 1.1 | B10000 |
| NOV.<br>28... | 54 | 20 | 11 | 57 | 7.0 | 7.0 | 10.1 | 84 | 2.3 | B71 |
| DEC.<br>19... | 39 | 17 | 11 | 58 | 6.3 | .0 | 13.9 | 97 | 3.0 | B2 |
| JAN.<br>23... | -- | 17 | 11 | 66 | 6.0 | 1.0 | 11.5 | 81 | 2.2 | B15 |
| FEB.<br>27... | 31 | -- | -- | 39 | 5.9 | .0 | 12.2 | 85 | .4 | 22 |
| APR.<br>03... | -- | 17 | 10 | 52 | 6.8 | 5.0 | 12.0 | 95 | 1.8 | B3 |
| 24... | 27 | -- | -- | 47 | 6.5 | 7.0 | 13.5 | 113 | -- | B5 |
| MAY<br>23... | 47 | -- | -- | 51 | 6.8 | 18.0 | 8.7 | 94 | 1.2 | B27 |
| JUNE<br>19... | 33 | -- | -- | 50 | 7.7 | 21.0 | 9.9 | 110 | .6 | -- |
| AUG.<br>01... | 47 | -- | -- | 57 | 7.1 | 24.0 | 9.1 | 107 | .6 | B40 |
| 28... | 48 | -- | -- | 67 | 7.5 | 21.0 | 9.0 | 100 | 1.3 | 60 |
| SEP.<br>19... | 42 | -- | -- | 66 | 7.4 | 16.0 | 9.2 | 94 | .8 | 100 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

### PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|---|---|---|---|
| May 16 1973 | 1,600 | *Asterionella formosa* | 87 | June 12 1973 | 160 | *Cymbella* | 26 |
| July 10 1973 | 200 | *Nitzschia* | 16 | Aug. 15 1973 | 330 | *Scenedesmus* sp. | 58 |
| Sept. 12 1973 | 720 | *Scenedesmus* sp. | 54 | Oct. 18 1973 | 210 | *Sphaerocystis schroeteri* | 16 |
| Nov. 28 1973 | 130 | *Nitzschia*<br>*Achnanthes*<br>*Cymbella* | 30<br>20<br>17 | Dec. 19 1973 | 62 | *Melosira* sp.<br>*Navicula* spp.<br>*Fragilaria* sp. | 32<br>16<br>24 |
| Jan. 23 1974 | 270.0 | *Chlamydomonas* | 82 | Feb. 27 1974 | 250.0 | *Synedra*<br>*Achnanthes*<br>*Gomphonema* | 32<br>16<br>16 |
| Apr. 3 1974 | 2,300 | *Ulothrix* | 30 | May 23 1974 | 2,600 | *Actinastrum*<br>*Cymbella*<br>*Asterionella*<br>*Navicula*<br>*Hannaea Arcus*<br>*Fragilaria*<br>*Anacystis*<br>*Cyclotella*<br>*Synedra*<br>*Diatoma*<br>*Closterium* | 29<br>28<br>16<br>14<br>5<br>3<br>2<br>2<br>1<br>1<br>1 |
| Apr. 24 1974 | 1,080 | *Melosira*<br>*Achnanthes*<br>*Hannaea Arcus*<br>*Asterionella* | 20<br>18<br>18<br>16 | June 19 1974 | 1,200 | *Achnanthes*<br>*Scenedesmus*<br>*Cymbella*<br>*Kirchneriella*<br>*Gomphonema*<br>*Anacystis*<br>*Navicula*<br>*Synedra*<br>*Dinobryon* | 30<br>21<br>18<br>13<br>5<br>4<br>4<br>4<br>2 |
| Aug. 1 1974 | 1,800 | *Achnanthes*<br>*Schroederia*<br>*Cymbella*<br>*Navicula*<br>*Pediastrum*<br>*Cyclotella*<br>*Gomphonema*<br>*Stauroneis*<br>*Trachelomonas*<br>*Haematococcus* | 38<br>31<br>8<br>6<br>6<br>4<br>2<br>2<br>2<br>2 | Aug. 28 1974 | 1,000 | *Achnanthes*<br>*Scenedesmus*<br>*Cocconeis*<br>*Tetraedron*<br>*Nitzschia*<br>*Gomphonema* | 55<br>26<br>6<br>6<br>3<br>3 |
| Sept. 19 1974 | 620 | *Achnanthes*<br>*Scenedesmus*<br>*Gomphonema*<br>*Nitzschia*<br>*Cymbella*<br>*Cosmarium* | 63<br>13<br>9<br>6<br>6<br>3 | | | | |

## 01422735 WEST BRANCH DELAWARE RIVER ABOVE WALTON, N.Y.

**LOCATION.**--Lat 42°09'18", long 75°06'40", Delaware County, 0.1 mi (0.2 km) north of River Road opposite roadside park, 0.6 mi (1.0 km) upstream from Walton, 1.5 mi (2.4 km) upstream from East Brook and 2.1 mi (3.4 km) upstream from gaging station (01423000) at Walton.

**DRAINAGE AREA.**--273 mi$^2$ (707 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNE-. SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 25... | 1445 | E30 | 1.4 | -- | 12 | -- | 3.4 | -- | 3.7 | -- | 1.3 |
| NOV. | | | | | | | | | | | |
| 27... | 1410 | E130 | -- | -- | 10 | -- | 3.4 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 18... | 1430 | E420 | -- | -- | 6.5 | -- | 2.0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 22... | 1405 | E1100 | 3.2 | -- | 6.5 | -- | 1.6 | -- | 3.9 | -- | 1.7 |
| FEB. | | | | | | | | | | | |
| 26... | 1245 | E960 | -- | -- | 6.2 | -- | 1.7 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 02... | 1430 | E940 | -- | -- | 7.0 | -- | 1.8 | -- | -- | -- | -- |
| 23... | 1510 | E660 | -- | 6.3 | -- | 1.8 | -- | 2.5 | -- | 1.0 | -- |
| MAY | | | | | | | | | | | |
| 22... | 1525 | E470 | -- | 7.5 | -- | 1.8 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 19... | 1005 | E120 | -- | 10 | -- | 2.4 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 30... | 1700 | E2470 | 2.9 | 6.3 | -- | 1.5 | -- | 2.2 | -- | 2.7 | -- |
| AUG. | | | | | | | | | | | |
| 27... | 1720 | E85 | -- | 11 | -- | 2.7 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1435 | E340 | -- | 12 | -- | 2.6 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 25... | 36 | 0 | 30 | 12 | 9.5 | -- | .3 | 1.0 | .00 | 1.0 | .01 |
| NOV. | | | | | | | | | | | |
| 27... | 26 | 0 | 21 | -- | -- | -- | -- | 1.2 | .00 | 1.2 | .08 |
| DEC. | | | | | | | | | | | |
| 18... | 15 | 0 | 12 | -- | -- | -- | -- | 1.2 | .00 | 1.2 | .05 |
| JAN. | | | | | | | | | | | |
| 22... | 12 | 0 | 10 | 9.7 | 6.5 | -- | .1 | .96 | .00 | .96 | .16 |
| FEB. | | | | | | | | | | | |
| 26... | 10 | 0 | 8 | -- | -- | -- | -- | .99 | .01 | 1.0 | .04 |
| APR. | | | | | | | | | | | |
| 02... | 15 | 0 | 12 | -- | -- | -- | -- | .84 | .01 | .85 | .09 |
| 23... | 16 | 0 | 13 | 11 | 4.3 | .1 | -- | .67 | .01 | .68 | .10 |
| MAY | | | | | | | | | | | |
| 22... | 21 | 0 | 17 | -- | -- | -- | -- | .45 | .01 | .46 | .03 |
| JUNE | | | | | | | | | | | |
| 19... | 31 | 0 | 25 | -- | -- | -- | -- | .86 | .01 | .87 | .15 |
| JULY | | | | | | | | | | | |
| 30... | 11 | 0 | 9 | 11 | 3.9 | .3 | -- | .92 | .04 | .96 | 1.3 |
| AUG. | | | | | | | | | | | |
| 27... | 29 | -- | -- | -- | -- | -- | -- | .54 | .00 | .54 | .12 |
| SEP. | | | | | | | | | | | |
| 18... | 25 | 0 | 21 | -- | -- | -- | -- | .68 | .00 | .68 | .06 |

E Estimated value.

## 01422735 WEST BRANCH DELAWARE RIVER ABOVE WALTON, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | .15 | .16 | 1.2 | .01 | -- | .00 | 61 | 8 | 75 | 44 |
| NOV. | | | | | | | | | | |
| 27... | .05 | .13 | 1.3 | .04 | -- | .02 | -- | 11 | 85 | 39 |
| DEC. | | | | | | | | | | |
| 18... | .09 | .14 | 1.3 | .05 | -- | .03 | -- | 25 | 79 | 24 |
| JAN. | | | | | | | | | | |
| 22... | .57 | .73 | 1.7 | .13 | -- | .09 | 39 | 32 | 59 | 23 |
| FEB. | | | | | | | | | | |
| 26... | .13 | .17 | 1.2 | .02 | -- | .01 | -- | 2 | 46 | 22 |
| APR. | | | | | | | | | | |
| 02... | .09 | .18 | 1.0 | .02 | -- | .01 | -- | 2 | 55 | 25 |
| 23... | .07 | .17 | .85 | .02 | .01 | -- | -- | 9 | 45 | -- |
| MAY | | | | | | | | | | |
| 22... | .16 | .19 | .65 | .04 | .02 | -- | -- | 10 | 73 | -- |
| JUNE | | | | | | | | | | |
| 19... | .24 | .39 | 1.3 | .06 | .04 | -- | -- | 6 | 86 | -- |
| JULY | | | | | | | | | | |
| 30... | .00 | 1.2 | 2.2 | .33 | .18 | -- | -- | -- | 232 | -- |
| AUG. | | | | | | | | | | |
| 27... | .13 | .25 | .79 | .04 | .03 | -- | -- | 0 | 71 | -- |
| SEP. | | | | | | | | | | |
| 18... | .09 | .15 | .83 | .02 | .02 | -- | -- | 1 | 59 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 25... | 14 | 135 | 7.1 | 13.0 | 12.8 | 119 | .6 | 1.9 | -- | <1 |
| NOV. | | | | | | | | | | |
| 27... | 18 | 112 | 7.4 | 7.0 | 11.5 | 96 | 2.3 | 1.8 | -- | 49 |
| DEC. | | | | | | | | | | |
| 18... | 12 | 86 | 6.1 | .0 | 13.5 | 94 | 1.2 | 1.7 | -- | 100 |
| JAN. | | | | | | | | | | |
| 22... | 13 | 83 | 5.9 | 1.0 | 13.5 | 95 | 3.6 | 4.6 | -- | B1200 |
| FEB. | | | | | | | | | | |
| 26... | 14 | 69 | 5.8 | 1.0 | 12.4 | 88 | 1.2 | 1.8 | -- | B17 |
| APR. | | | | | | | | | | |
| 02... | 13 | 77 | 6.5 | 5.0 | 13.9 | 110 | 2.1 | 5.5 | -- | 35 |
| 23... | -- | 73 | 6.1 | 9.0 | 11.6 | 101 | .0 | 5.7 | 8.2 | 18 |
| MAY | | | | | | | | | | |
| 22... | -- | 76 | 7.4 | 19.0 | 12.0 | 130 | 1.5 | 4.6 | 2.5 | 13 |
| JUNE | | | | | | | | | | |
| 19... | -- | 111 | 7.0 | 18.0 | 8.5 | 90 | .6 | 3.0 | 5.7 | 58 |
| JULY | | | | | | | | | | |
| 30... | -- | 72 | 6.7 | 19.0 | 8.2 | 88 | -- | 18 | 13 | 1000 |
| AUG. | | | | | | | | | | |
| 27... | -- | 112 | 8.7 | 22.0 | 11.0 | 125 | 1.1 | 4.4 | 1.6 | B39 |
| SEP. | | | | | | | | | | |
| 18... | -- | 102 | 7.4 | 15.0 | 12.0 | 120 | .6 | 3.2 | 2.0 | B100 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01423010 WEST BRANCH DELAWARE RIVER AT BEERSTON, N.Y.

**LOCATION.**--Lat 42°07'43", long 75°09'39", Delaware County, at bridge on State Highway 10 in Beerston, at upper end of Cannonsville Reservoir and 4.7 mi (7.6 km) downstream from gaging station (01423000) at Walton.

**DRAINAGE AREA.**--351 mi² (909 km²).

**PERIOD OF RECORD.**--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 19... | 1055 | E46 | 3.3 | -- | 9.7 | -- | 3.0 | -- | 4.0 | -- | 1.2 |
| NOV. 27... | 1605 | E197 | -- | -- | 6.7 | -- | 2.6 | -- | -- | -- | -- |
| DEC. 18... | 1550 | E559 | -- | -- | 5.0 | -- | 1.5 | -- | -- | -- | -- |
| JAN. 22... | 1530 | 1340 | 3.0 | -- | 5.8 | -- | 1.5 | -- | 3.4 | -- | 1.4 |
| FEB. 26... | 1415 | E1170 | -- | -- | 5.0 | -- | 1.3 | -- | -- | -- | -- |
| APR. 02... | 1610 | 1390 | -- | -- | 5.8 | -- | 1.6 | -- | -- | -- | -- |
| 23... | 1700 | E810 | -- | 5.1 | -- | 1.6 | -- | 1.6 | -- | .8 | -- |
| MAY 22... | 1700 | E542 | -- | 7.4 | -- | 1.8 | -- | -- | -- | -- | -- |
| JUNE 19... | 1205 | E144 | -- | 11 | -- | 2.6 | -- | -- | -- | -- | -- |
| JULY 31... | 0830 | E1030 | 3.8 | 7.0 | -- | 1.6 | -- | 2.8 | -- | 1.6 | -- |
| AUG. 27... | 1820 | E116 | -- | 14 | -- | 3.2 | -- | -- | -- | -- | -- |
| SEP. 18... | 1605 | E329 | -- | 11 | -- | 2.5 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 19... | 29 | 0 | 24 | 11 | 7.5 | -- | .3 | .74 | .02 | .76 | .07 |
| NOV. 27... | 18 | 0 | 15 | -- | -- | -- | -- | .58 | .00 | .59 | .15 |
| DEC. 18... | 8 | 0 | 7 | -- | -- | -- | -- | .62 | .00 | .62 | .04 |
| JAN. 22... | 11 | 0 | 9 | 9.2 | 5.4 | -- | .1 | .75 | .00 | .75 | .12 |
| FEB. 26... | 7 | 0 | 6 | -- | -- | -- | -- | .62 | .01 | .63 | .03 |
| APR. 02... | 13 | 0 | 11 | -- | -- | -- | -- | .61 | .01 | .62 | .10 |
| 23... | 14 | 0 | 11 | 9.6 | 2.9 | .0 | -- | .42 | .02 | .44 | .14 |
| MAY 22... | 21 | 0 | 17 | -- | -- | -- | -- | .40 | .01 | .41 | .04 |
| JUNE 19... | 31 | 0 | 25 | -- | -- | -- | -- | .75 | .02 | .77 | .13 |
| JULY 31... | 15 | 0 | 12 | 10 | 3.5 | .3 | -- | .68 | .02 | .70 | .22 |
| AUG. 27... | 29 | 0 | 24 | -- | -- | -- | -- | .48 | .00 | .48 | .22 |
| SEP. 18... | 25 | 0 | 21 | -- | -- | -- | -- | .58 | .00 | .58 | .13 |

E Estimated value.

## 01423010 WEST BRANCH DELAWARE RIVER AT BEERSTON, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 19... | .02 | .09 | .85 | .34 | -- | .22 | 55 | 0 | 67 | 37 |
| NOV. 27... | .05 | .20 | .79 | .06 | -- | .05 | -- | 7 | 62 | 27 |
| DEC. 18... | .03 | .07 | .69 | .03 | -- | .02 | -- | 9 | 46 | 19 |
| JAN. 22... | .61 | .73 | 1.5 | .14 | -- | .10 | 36 | 16 | 51 | 21 |
| FEB. 26... | .07 | .10 | .73 | .02 | -- | .01 | -- | 1 | 33 | 18 |
| APR. 02... | .17 | .27 | .89 | .05 | -- | .02 | -- | 14 | 53 | 21 |
| 23... | .06 | .20 | .64 | .05 | .04 | -- | -- | 5 | 37 | -- |
| MAY 22... | .28 | .32 | .73 | .10 | .08 | -- | -- | 7 | 87 | -- |
| JUNE 19... | .38 | .51 | 1.3 | .37 | .29 | -- | -- | 3 | 79 | -- |
| JULY 31... | .55 | .77 | 1.5 | .18 | .10 | -- | -- | 53 | 129 | -- |
| AUG. 27... | .06 | .28 | .76 | .19 | .16 | -- | -- | 1 | 63 | -- |
| SEP. 18... | .12 | .25 | .83 | .09 | .06 | -- | -- | 4 | 63 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 19... | 13 | 114 | 6.4 | 10.0 | 8.9 | 79 | 1.9 | 2.8 | -- | 35 |
| NOV. 27... | 13 | 77 | 6.5 | 8.0 | 10.5 | 91 | 2.3 | 2.7 | -- | B210 |
| DEC. 18... | 12 | 70 | 6.1 | .0 | 14.0 | 97 | 1.3 | 1.7 | -- | 200 |
| JAN. 22... | 12 | 72 | 5.9 | 1.0 | 13.0 | 92 | 4.4 | 4.0 | -- | 740 |
| FEB. 26... | 12 | 59 | 5.9 | 1.0 | 12.6 | 90 | 1.6 | 3.7 | -- | 823 |
| APR. 02... | 10 | 67 | 7.4 | 5.0 | 12.9 | 103 | 2.1 | 3.8 | -- | B360 |
| 23... | -- | 58 | 6.5 | 9.0 | 11.6 | 101 | -- | 5.8 | 7.7 | B190 |
| MAY 22... | -- | 75 | 7.9 | 19.0 | 11.0 | 120 | 2.2 | 4.6 | 8.3 | 88 |
| JUNE 19... | -- | 115 | 6.9 | 19.0 | 9.2 | 100 | 2.7 | 2.3 | 6.0 | 285 |
| JULY 31... | -- | 78 | 7.1 | 14.0 | 8.2 | 79 | -- | 9.5 | 5.5 | B3800 |
| AUG. 27... | -- | 114 | 7.1 | 21.0 | 8.1 | 90 | 2.3 | 3.0 | 5.0 | 440 |
| SEP. 18... | -- | 102 | 7.2 | 15.0 | 11.2 | 110 | 1.7 | 4.0 | 2.0 | 290 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, temperature recorder at gaging station on right bank at Stilesville, 0.5 mi (0.8 km) upstream from Cold Spring Creek, 1.4 mi (2.3 km) downstream from Cannonsville Dam, and 2.0 mi (3.2 km) northeast of Deposit.

DRAINAGE AREA.--456 mi$^2$ (1,181 km$^2$).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.
Water temperatures: October 1962 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C June 10; minimum, freezing point on several days during December.

Period of record:
Water temperatures: Maximum, 30.5°C July 2, 1963; minimum, freezing point on many days during winter periods, most years.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 19... | 0935 | 1270 | 2.7 | -- | 6.2 | -- | 1.8 | -- | 2.5 | -- | 1.0 |
| NOV. | | | | | | | | | | | |
| 28... | 0940 | 35 | -- | -- | 7.7 | -- | 2.9 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 18... | 1705 | E11 | -- | -- | 7.9 | -- | 2.3 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 22... | 1725 | 885 | 2.6 | -- | 6.0 | -- | 1.7 | -- | 2.6 | -- | 1.3 |
| FEB. | | | | | | | | | | | |
| 26... | 1535 | 1810 | -- | -- | 6.2 | -- | 1.7 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 03... | 0900 | 1320 | -- | -- | 6.5 | -- | 1.8 | -- | -- | -- | -- |
| 24... | 0820 | 1060 | -- | 5.3 | -- | 1.6 | -- | 2.2 | -- | 1.0 | -- |
| MAY | | | | | | | | | | | |
| 22... | 1835 | 830 | -- | 9.9 | -- | 1.7 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 19... | 1445 | 28 | -- | 7.7 | -- | 1.8 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 31... | 1100 | 41 | 2.3 | 8.0 | -- | 2.6 | -- | 2.7 | -- | .9 | -- |
| AUG. | | | | | | | | | | | |
| 28... | 0950 | 770 | -- | 9.0 | -- | 1.8 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1720 | 28 | -- | 8.0 | -- | 2.0 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 19... | 16 | 0 | 13 | 9.6 | 3.5 | -- | .8 | .71 | .00 | .71 | .01 |
| NOV. | | | | | | | | | | | |
| 28... | 21 | 0 | 17 | -- | -- | -- | -- | .42 | .00 | .43 | .10 |
| DEC. | | | | | | | | | | | |
| 18... | 23 | 0 | 19 | -- | -- | -- | -- | .44 | .00 | .44 | .02 |
| JAN. | | | | | | | | | | | |
| 22... | 12 | 0 | 10 | 9.9 | 3.7 | -- | .2 | .65 | .00 | .65 | .07 |
| FEB. | | | | | | | | | | | |
| 26... | 12 | 0 | 10 | -- | -- | -- | -- | .84 | .01 | .85 | .06 |
| APR. | | | | | | | | | | | |
| 03... | 15 | 0 | 12 | -- | -- | -- | -- | .65 | .01 | .66 | .06 |
| 24... | 13 | 0 | 11 | 9.9 | 3.6 | .2 | -- | .63 | .00 | .63 | .04 |
| MAY | | | | | | | | | | | |
| 22... | 14 | 0 | 11 | -- | -- | -- | -- | .38 | .01 | .39 | .12 |
| JUNE | | | | | | | | | | | |
| 19... | 19 | 0 | 16 | -- | -- | -- | -- | .54 | .01 | .55 | .06 |
| JULY | | | | | | | | | | | |
| 31... | 13 | 0 | 11 | 11 | 4.4 | .2 | -- | .52 | .01 | .53 | .11 |
| AUG. | | | | | | | | | | | |
| 28... | 11 | 0 | 9 | -- | -- | -- | -- | .67 | .00 | .67 | .03 |
| SEP. | | | | | | | | | | | |
| 18... | 15 | 0 | 12 | -- | -- | -- | -- | .48 | .00 | .48 | .06 |

E Estimated value.

## 01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 19... | .12 | .13 | .84 | .03 | -- | .01 | 36 | 1 | 51 | 23 |
| NOV. | | | | | | | | | | |
| 28... | .14 | .24 | .67 | .04 | -- | .01 | -- | 14 | 60 | 31 |
| DEC. | | | | | | | | | | |
| 18... | .11 | .13 | .57 | .01 | -- | .00 | -- | 5 | 65 | 29 |
| JAN. | | | | | | | | | | |
| 22... | .18 | .25 | .90 | .05 | -- | .02 | 34 | 13 | 35 | 22 |
| FEB. | | | | | | | | | | |
| 26... | .08 | .14 | .99 | .04 | -- | .03 | -- | 1 | 41 | 22 |
| APR. | | | | | | | | | | |
| 03... | .08 | .14 | .80 | .03 | -- | .02 | -- | 0 | 46 | 24 |
| 24... | .14 | .18 | .81 | .03 | .01 | -- | -- | 2 | -- | -- |
| MAY | | | | | | | | | | |
| 22... | .33 | .45 | .84 | .04 | .01 | -- | -- | 6 | 57 | -- |
| JUNE | | | | | | | | | | |
| 19... | .17 | .23 | .78 | .02 | .01 | -- | -- | 0 | 52 | -- |
| JULY | | | | | | | | | | |
| 31... | .21 | .32 | .85 | .03 | .01 | -- | -- | 7 | 59 | -- |
| AUG. | | | | | | | | | | |
| 28... | .03 | .06 | .73 | .02 | .01 | -- | -- | 0 | 57 | -- |
| SEP. | | | | | | | | | | |
| 18... | .13 | .19 | .67 | .01 | .01 | -- | -- | 1 | 46 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 19... | 10 | 71 | 6.3 | 8.0 | 5.4 | 46 | .2 | 2.4 | -- | B3 |
| NOV. | | | | | | | | | | |
| 28... | 14 | 85 | 6.7 | 9.0 | 9.5 | 83 | 1.8 | 2.9 | -- | B1 |
| DEC. | | | | | | | | | | |
| 18... | 10 | 96 | 6.2 | .0 | 13.5 | 94 | 1.0 | .8 | -- | B2 |
| JAN. | | | | | | | | | | |
| 22... | 12 | 78 | 6.2 | 2.0 | 13.0 | 92 | 2.3 | 2.1 | -- | B3 |
| FEB. | | | | | | | | | | |
| 26... | 13 | 78 | 6.1 | 2.0 | 13.4 | 98 | .9 | 2.6 | -- | B1 |
| APR. | | | | | | | | | | |
| 03... | 11 | 71 | 6.4 | 3.0 | 12.9 | 97 | 1.8 | .0 | -- | B1 |
| 24... | -- | 64 | 6.5 | 4.0 | 13.0 | 100 | -- | 4.5 | 10 | <11 |
| MAY | | | | | | | | | | |
| 22... | -- | 62 | 7.5 | 14.0 | 10.1 | 99 | 3.1 | .0 | .0 | <1 |
| JUNE | | | | | | | | | | |
| 19... | -- | 75 | 7.2 | 16.0 | 11.0 | 110 | .6 | .4 | .2 | B8 |
| JULY | | | | | | | | | | |
| 31... | -- | 78 | 7.2 | 11.0 | 10.0 | 88 | -- | 14 | 3.2 | 25 |
| AUG. | | | | | | | | | | |
| 28... | -- | 73 | 7.0 | 8.0 | 7.7 | 65 | 1.1 | 2.8 | 1.6 | 20 |
| SEP. | | | | | | | | | | |
| 18... | -- | 76 | 7.5 | 12.0 | 12.2 | 114 | .5 | 7.6 | 5.0 | 360 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.—Continued

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 8.0 | 7.0 | 9.0 | 7.0 | 5.5 | 3.0 | 1.5 | 1.5 | 3.0 | 3.0 | 2.0 | 2.0 |
| 2 | 9.0 | 7.0 | 10.0 | 6.5 | 4.0 | 2.0 | 1.5 | 1.5 | 3.0 | 3.0 | 2.0 | 2.0 |
| 3 | 11.0 | 8.0 | 9.0 | 6.5 | 5.5 | 2.0 | 2.0 | 1.5 | 3.0 | 3.0 | 2.0 | 1.5 |
| 4 | 8.0 | 7.0 | 6.5 | 6.0 | 7.0 | 4.0 | 2.0 | 1.5 | 3.0 | 3.0 | 1.5 | 1.5 |
| 5 | 9.0 | 7.0 | 8.5 | 6.0 | 8.5 | 6.0 | 1.5 | 1.5 | 3.0 | 3.0 | 1.5 | 1.5 |
| 6 | 9.0 | 7.0 | 8.5 | 8.0 | 6.5 | 5.0 | 1.5 | 1.5 | 3.0 | 3.0 | 1.5 | 1.5 |
| 7 | 9.5 | 7.0 | 8.5 | 8.0 | 4.5 | 4.0 | 2.0 | 1.5 | 3.0 | 3.0 | 1.5 | 1.5 |
| 8 | 10.0 | 7.0 | 9.0 | 8.5 | 4.0 | 3.0 | 2.0 | 2.0 | 3.0 | 3.0 | 1.5 | 1.5 |
| 9 | 10.0 | 8.0 | 9.0 | 9.0 | 4.0 | 4.0 | 2.0 | 2.0 | 3.0 | 3.0 | 1.5 | 1.5 |
| 10 | 11.5 | 8.0 | 9.0 | 9.0 | 4.5 | 4.0 | 2.0 | 2.0 | 3.0 | 3.0 | 2.0 | 1.5 |
| 11 | 8.0 | 6.5 | 9.0 | 9.0 | 4.5 | 3.0 | 2.0 | 1.5 | 3.0 | 3.0 | 2.0 | 1.5 |
| 12 | 7.0 | 6.5 | 9.0 | 9.0 | 3.0 | 1.5 | 1.5 | 1.5 | 3.0 | 3.0 | 2.0 | 1.5 |
| 13 | 7.0 | 6.5 | 9.0 | 9.0 | 1.5 | 1.0 | 1.5 | 1.5 | 3.0 | 3.0 | 2.0 | 2.0 |
| 14 | 8.0 | 7.0 | 9.0 | 9.0 | 3.0 | 1.5 | 1.5 | 1.0 | 3.0 | 3.0 | 3.0 | 2.0 |
| 15 | 7.0 | 7.0 | 9.0 | 9.0 | 1.5 | 0.5 | 1.5 | 1.0 | 3.0 | 2.0 | 3.0 | 3.0 |
| 16 | 7.0 | 7.0 | 9.0 | 9.0 | 0.5 | 0.0 | 1.5 | 1.0 | 2.0 | 2.0 | 3.0 | 3.0 |
| 17 | 7.0 | 7.0 | 9.0 | 8.5 | 0.0 | 0.0 | 1.5 | 1.0 | 2.0 | 2.0 | 3.0 | 3.0 |
| 18 | 7.0 | 7.0 | 8.5 | 8.5 | 0.0 | 0.0 | 1.0 | 1.0 | 3.0 | 2.0 | 3.0 | 3.0 |
| 19 | 7.0 | 6.5 | 8.5 | 8.5 | 0.0 | 0.0 | 1.0 | 1.0 | 3.0 | 2.0 | 3.0 | 3.0 |
| 20 | 7.0 | 7.0 | 8.5 | 6.5 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 2.0 | 4.0 | 3.0 |
| 21 | 8.0 | 7.0 | 7.0 | 6.0 | 0.0 | 0.0 | 1.0 | 1.0 | 3.5 | 2.0 | 3.0 | 3.0 |
| 22 | 8.0 | 8.0 | 8.0 | 7.0 | 0.0 | 0.0 | 1.0 | 1.0 | 3.0 | 2.0 | 3.0 | 2.0 |
| 23 | 8.5 | 8.0 | 8.0 | 8.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 2.0 |
| 24 | 8.5 | 8.0 | 8.0 | 8.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 3.0 |
| 25 | 8.5 | 8.0 | 9.0 | 8.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 2.0 |
| 26 | 8.5 | 8.0 | 8.0 | 7.0 | 1.5 | 0.0 | 1.5 | 1.0 | 2.0 | 2.0 | 3.0 | 2.0 |
| 27 | 8.5 | 8.5 | 7.0 | 6.5 | 1.5 | 1.5 | 2.0 | 1.5 | 2.0 | 2.0 | 3.5 | 2.0 |
| 28 | 8.5 | 8.5 | 6.5 | 6.5 | 3.0 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 3.5 | 3.0 |
| 29 | 8.5 | 8.0 | 7.0 | 5.5 | 2.0 | 2.0 | 2.0 | 2.0 | --- | --- | 3.0 | 2.0 |
| 30 | 9.0 | 7.0 | 6.5 | 5.5 | 2.0 | 0.5 | 2.0 | 2.0 | --- | --- | 3.0 | 2.0 |
| 31 | 10.0 | 6.5 | --- | --- | 1.5 | 0.5 | 3.0 | 2.0 | --- | --- | 3.5 | 3.0 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 4.0 | 3.5 | 8.0 | 6.0 | 17.0 | 15.5 | 18.5 | 10.5 | 18.5 | 9.5 | 15.5 | 11.0 |
| 2 | 4.0 | 3.5 | 9.0 | 6.5 | 16.5 | 15.0 | 19.5 | 10.5 | 12.0 | 9.0 | 15.0 | 11.0 |
| 3 | 4.5 | 3.5 | 8.5 | 8.0 | 18.0 | 15.5 | 20.0 | 12.0 | 14.5 | 8.5 | 12.0 | 11.0 |
| 4 | 4.0 | 3.5 | 9.5 | 7.0 | 19.0 | 15.5 | 21.5 | 11.5 | 15.5 | 10.5 | 11.5 | 10.5 |
| 5 | 3.5 | 3.5 | 9.5 | 8.0 | 19.0 | 15.5 | 17.0 | 11.0 | 14.0 | 10.0 | 17.0 | 9.5 |
| 6 | 3.5 | 3.5 | 9.0 | 8.5 | 19.0 | 14.5 | 20.5 | 10.0 | 17.0 | 9.5 | 12.0 | 9.5 |
| 7 | 3.5 | 3.5 | 9.0 | 8.0 | 19.0 | 11.0 | 21.0 | 10.5 | 12.0 | 8.5 | 15.0 | 10.0 |
| 8 | 3.5 | 3.5 | 10.5 | 7.0 | 18.5 | 11.0 | 20.5 | 10.5 | 9.5 | 8.0 | 16.0 | 10.0 |
| 9 | 3.5 | 3.5 | 9.5 | 9.0 | 21.0 | 11.0 | 20.0 | 10.5 | 9.5 | 8.0 | 15.5 | 10.5 |
| 10 | 3.5 | 3.5 | 9.5 | 9.0 | 24.0 | 15.0 | 14.5 | 8.0 | 9.5 | 8.0 | 16.0 | 10.5 |
| 11 | 4.0 | 3.5 | 11.5 | 9.0 | 18.0 | 13.0 | 11.5 | 7.0 | 10.5 | 8.0 | 16.5 | 10.5 |
| 12 | 4.0 | 4.0 | 10.5 | 9.5 | 14.0 | 10.0 | 9.0 | 8.0 | 10.5 | 8.0 | 17.0 | 11.0 |
| 13 | 4.0 | 4.0 | 9.5 | 8.5 | 10.0 | 8.5 | 8.5 | 8.0 | 9.5 | 8.5 | 18.0 | 11.5 |
| 14 | 4.5 | 4.0 | 9.5 | 8.5 | 9.5 | 8.5 | 9.0 | 8.0 | 10.0 | 8.5 | 13.5 | 10.5 |
| 15 | 4.0 | 4.0 | 9.5 | 8.5 | 13.0 | 8.5 | 12.0 | 8.0 | 9.5 | 8.0 | 15.5 | 9.5 |
| 16 | 4.0 | 4.0 | 10.5 | 9.0 | 14.0 | 8.5 | 12.0 | 8.0 | 9.5 | 8.5 | 14.5 | 9.5 |
| 17 | 4.5 | 4.0 | 11.5 | 10.5 | 19.0 | 10.5 | 9.0 | 8.0 | 8.5 | 8.5 | 12.0 | 8.5 |
| 18 | 4.5 | 4.0 | 13.0 | 11.0 | 17.0 | 10.0 | 9.0 | 8.0 | 9.5 | 8.5 | 13.0 | 9.5 |
| 19 | 5.0 | 4.5 | 14.5 | 12.0 | 16.0 | 10.5 | 8.5 | 7.0 | 10.0 | 8.5 | 15.5 | 9.5 |
| 20 | 5.5 | 5.0 | 15.0 | 14.0 | 16.5 | 10.5 | 8.5 | 8.0 | 10.0 | 8.5 | 11.0 | 8.5 |
| 21 | 6.0 | 5.0 | 15.5 | 14.5 | 13.0 | 10.0 | 8.5 | 8.0 | 9.5 | 8.5 | 9.5 | 8.5 |
| 22 | 5.5 | 5.0 | 15.5 | 14.0 | 18.5 | 10.5 | 9.0 | 7.0 | 9.5 | 8.5 | 17.0 | 9.5 |
| 23 | 5.0 | 5.0 | 14.0 | 13.5 | 14.0 | 10.5 | 8.0 | 7.0 | 10.0 | 8.5 | 16.5 | 16.0 |
| 24 | 5.0 | 5.0 | 15.0 | 13.5 | 16.5 | 9.5 | 8.0 | 8.0 | 8.5 | 8.5 | 17.0 | 16.0 |
| 25 | 5.5 | 5.0 | 14.5 | 13.5 | 11.5 | 10.5 | 8.5 | 7.0 | 13.5 | 9.0 | 16.5 | 16.0 |
| 26 | 6.5 | 5.5 | 13.5 | 13.5 | 11.0 | 9.5 | 8.0 | 8.0 | 13.0 | 8.5 | 16.5 | 15.5 |
| 27 | 7.0 | 6.0 | 14.5 | 13.5 | 18.0 | 9.5 | 8.5 | 8.0 | 13.0 | 9.0 | 16.5 | 13.5 |
| 28 | 8.0 | 6.0 | 14.5 | 14.0 | 14.5 | 10.0 | 9.0 | 7.0 | 10.5 | 9.0 | 16.0 | 16.0 |
| 29 | 8.5 | 6.0 | 14.0 | 14.0 | 15.0 | 10.5 | 11.5 | 8.0 | 13.0 | 10.5 | 16.5 | 15.5 |
| 30 | 7.0 | 5.5 | 16.0 | 14.0 | 14.0 | 8.5 | 13.0 | 8.0 | 12.0 | 9.5 | 15.0 | 14.5 |
| 31 | --- | --- | 16.0 | 15.5 | --- | --- | 16.0 | 9.5 | 13.5 | 9.0 | --- | --- |

## 01425665 OQUAGA CREEK AT ARCTIC, N.Y.

LOCATION.--Lat 42°11'05", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mi (0.5 km) upstream from small tributary, 0.5 mi (0.8 km) west of Arctic, 1.3 mi (2.1 km) upstream from gaging station (01425675) near North Sanford and 2.6 mi (4.2 km) northeast of North Sanford.

DRAINAGE AREA.--1.15 mi² (2.98 km²).

PERIOD OF RECORD.--Chemical analyses: March to September 1971, April to August 1973, March to September 1974.

REMARKS.--Analyses of miscellaneous samples published for 1972 water year.

### CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | 1230 | 2.8 | 2.7 | -- | -- | -- | 4.0 | -- | 1.0 | -- | 1.5 |
| APR. 24... | 1045 | 1.6 | 2.7 | 150 | 20 | 5.8 | -- | 1.2 | -- | 1.2 | -- |
| MAY 22... | 1400 | .70 | 3.2 | 400 | 30 | 6.4 | -- | 1.1 | -- | 1.7 | -- |
| JUNE 20... | 0915 | .19 | 3.6 | 340 | 30 | 5.0 | -- | 1.4 | -- | 2.0 | -- |
| JULY 25... | 1530 | .10 | 4.2 | 250 | 50 | 7.4 | -- | 1.4 | -- | 2.5 | -- |
| AUG. 21... | 0935 | E.00 | 4.7 | 1500 | 220 | 8.3 | -- | 2.2 | -- | 2.1 | -- |
| SEP. 19... | 1230 | .12 | 4.2 | 230 | 50 | 8.0 | -- | 1.9 | -- | 2.0 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | -- | 3.0 | 6 | 0 | 5 | 8.5 | 4.6 | -- | .0 | .14 | .00 |
| APR. 24... | .6 | -- | 8 | 0 | 7 | 8.5 | 1.6 | .2 | -- | .05 | .01 |
| MAY 22... | .6 | -- | 9 | 0 | 7 | 8.2 | .9 | .1 | -- | .00 | .01 |
| JUNE 20... | .3 | -- | 15 | 0 | 12 | 7.4 | 1.4 | .1 | -- | .08 | .00 |
| JULY 25... | 2.5 | -- | 31 | 0 | 25 | 9.4 | 1.7 | .1 | -- | .07 | .00 |
| AUG. 21... | 1.5 | -- | 27 | 0 | 22 | 7.9 | 5.2 | .1 | -- | .13 | .00 |
| SEP. 19... | .4 | -- | 15 | 0 | 12 | 8.2 | 1.5 | .2 | -- | .01 | .00 |

| DATE | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | .14 | 28 | 14 | 9 | 51 | 6.5 | 1.0 | -- | -- | -- | -- |
| APR. 24... | .06 | -- | -- | -- | 43 | 6.8 | 5.5 | -- | -- | -- | -- |
| MAY 22... | .00 | -- | -- | -- | 46 | 7.5 | 18.5 | -- | -- | -- | -- |
| JUNE 20... | .08 | -- | -- | -- | 51 | 7.0 | 16.0 | -- | -- | -- | -- |
| JULY 25... | .07 | -- | -- | -- | 58 | 6.2 | 17.0 | -- | -- | -- | -- |
| AUG. 21... | .13 | -- | -- | -- | 62 | 7.0 | -- | -- | -- | B120 | B214 |
| SEP. 19... | .01 | -- | -- | -- | 58 | 7.0 | 12.0 | 10.5 | 95 | B24 | 65 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

## 01425670 OQUAGA CREEK TRIBUTARY AT ARCTIC, N.Y.

**LOCATION.**--Lat 42°10'56", long 75°25'16" Broome County, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southwest of Arctic, 0.4 mi (0.6 km) downstream from bridge on East Afton Road, and 2.5 mi (4.0 km) northwest of North Sanford.

**DRAINAGE AREA.**--2.37 mi² (6.14 km²).

**PERIOD OF RECORD.**--Chemical analyses: March to September 1971, April to August 1973, March to September 1974.

**REMARKS.**--Analyses of miscellaneous samples published for 1972 water year.

### CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | 1320 | 7.9 | 2.6 | -- | -- | -- | 4.4 | -- | 1.3 | -- | 4.9 |
| APR. 24... | 1000 | 4.3 | 2.7 | 180 | 20 | 3.3 | -- | 1.2 | -- | 1.9 | -- |
| MAY 22... | 1500 | 2.0 | 3.5 | 380 | 10 | 5.5 | -- | 1.4 | -- | 2.7 | -- |
| JUNE 20... | 0830 | .65 | 3.6 | 280 | 90 | 6.9 | -- | 2.0 | -- | 3.3 | -- |
| JULY 25... | 1630 | .33 | 4.2 | 360 | 40 | 10 | -- | 2.5 | -- | 4.5 | -- |
| AUG. 21... | 1320 | .09 | 4.8 | 550 | 310 | 11 | -- | 3.0 | -- | 4.9 | -- |
| SEP. 19... | 1000 | .26 | 4.1 | 320 | 60 | 9.5 | -- | 2.8 | -- | 4.1 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | -- | .8 | 6 | 0 | 5 | 8.5 | 8.5 | -- | .1 | .19 | .00 |
| APR. 24... | .6 | -- | 11 | 0 | 9 | 8.8 | 2.7 | .2 | -- | .05 | .01 |
| MAY 22... | .7 | -- | 14 | 0 | 11 | 8.5 | 2.4 | .1 | -- | .04 | .01 |
| JUNE 20... | .5 | -- | 23 | 0 | 19 | 8.2 | 3.4 | .2 | -- | .08 | .00 |
| JULY 25... | .7 | -- | 28 | 0 | 23 | 10 | 4.4 | .2 | -- | -- | -- |
| AUG. 21... | 1.2 | -- | 34 | 0 | 28 | 9.3 | 6.0 | .2 | -- | .14 | .00 |
| SEP. 19... | .8 | -- | 31 | 0 | 25 | 8.2 | 4.5 | .2 | -- | .05 | .00 |

| DATE | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | .19 | 34 | 16 | 11 | 64 | 6.5 | 1.0 | -- | -- | -- | -- |
| APR. 24... | .06 | -- | -- | -- | 50 | 6.9 | 6.0 | -- | -- | -- | -- |
| MAY 22... | .05 | -- | -- | -- | 60 | 7.8 | 15.5 | -- | -- | -- | -- |
| JUNE 20... | .08 | -- | -- | -- | 73 | 7.3 | 15.0 | -- | -- | -- | -- |
| JULY 25... | -- | -- | -- | -- | 93 | 6.5 | 17.0 | -- | -- | -- | -- |
| AUG. 21... | .14 | -- | -- | -- | 110 | 7.4 | 16.5 | -- | -- | 32 | 630 |
| SEP. 19... | .05 | -- | -- | -- | 111 | 7.1 | 12.0 | 10.8 | 97 | B30 | 1500 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01423675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, temperature recorder at gaging station on left bank 20 ft (6 m) downstream from culvert on North Sanford Road, 0.2 mi (0.3 km) upstream from outlet of Stilson Pond, 1.5 mi (2.4 km) north of North Sanford, and 4.1 mi (6.6 km) upstream from Dry Brook.

DRAINAGE AREA.--4.71 mi² (12.2 km²).

PERIOD OF RECORD.--Chemical analyses: October 1972 to August 1973. March to September 1974.
Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 20.0°C June 10, July 4, 5, 9, 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 21.0°C June 30, July 1, 1971 and July 23, 24, 1972; minimum, freezing point on many days during winter periods.

REMARKS:--Clock stopped Dec. 19-20, range 0.0°C to 1.0°C, and Feb. 6-14, range 0.0°C to 2.5°C.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | 1130 | 8.8 | 2.9 | -- | -- | -- | 4.8 | -- | 1.4 | -- | 3.0 |
| APR. 24... | 1200 | 7.5 | 2.8 | 260 | 50 | 3.3 | -- | 1.2 | -- | 1.7 | -- |
| MAY 22... | 1315 | 4.3 | 3.4 | 420 | 20 | 5.7 | -- | 1.4 | -- | 2.2 | -- |
| JUNE 20... | 1100 | 1.2 | 4.0 | 28000 | 580 | 8.5 | -- | 4.0 | -- | 2.9 | -- |
| JULY 25... | 1500 | .52 | 5.0 | 5300 | 3000 | 14 | -- | 7.7 | -- | 4.8 | -- |
| AUG. 21... | 1030 | .19 | 5.3 | 18000 | 610 | 22 | -- | 6.6 | -- | 4.0 | -- |
| SEP. 19... | 1550 | .75 | 5.5 | 21000 | 580 | 12 | -- | 6.0 | -- | 3.6 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | -- | .6 | 8 | 0 | 7 | 8.9 | 5.2 | -- | .0 | .16 | .00 |
| APR. 24... | .6 | -- | 10 | 0 | 8 | 9.1 | 2.1 | .1 | -- | .13 | .00 |
| MAY 22... | .6 | -- | 1 | 0 | 1 | 8.8 | 1.6 | .0 | -- | .04 | .02 |
| JUNE 20... | 1.2 | -- | 23 | 0 | 19 | 15 | 4.3 | .0 | -- | .25 | .01 |
| JULY 25... | 2.9 | -- | 17 | 0 | 14 | 13 | 4.4 | 1.0 | -- | .36 | .05 |
| AUG. 21... | 2.5 | -- | 44 | 0 | 36 | 15 | 5.5 | .1 | -- | .14 | .01 |
| SEP. 19... | 1.8 | -- | 39 | 0 | 32 | 10 | 2.8 | .4 | -- | .08 | .05 |

| DATE | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 21... | .16 | 31 | 18 | 11 | 58 | 6.9 | .5 | -- | -- | -- | -- |
| APR. 24... | .13 | -- | -- | -- | 58 | 7.0 | 6.0 | -- | -- | -- | -- |
| MAY 22... | .06 | -- | -- | -- | 56 | 7.6 | 14.0 | -- | -- | -- | -- |
| JUNE 20... | .26 | -- | -- | -- | 60 | 6.8 | 16.0 | -- | -- | -- | -- |
| JULY 25... | .41 | -- | -- | -- | 99 | 6.3 | 15.0 | -- | -- | -- | -- |
| AUG. 21... | .15 | -- | -- | -- | 106 | 7.6 | 18.0 | -- | -- | 290 | 750 |
| SEP. 19... | .13 | -- | -- | -- | 130 | 7.3 | 15.0 | 11.3 | 100 | 400 | B1200 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

### 01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.--Continued

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 10.0 | 8.5 | 7.0 | 7.0 | 4.5 | 3.5 | 2.0 | 2.0 | 3.0 | 2.0 | 1.0 | 0.5 |
| 2 | 11.0 | 9.5 | 8.0 | 7.0 | 3.5 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.5 | 0.5 |
| 3 | 12.0 | 11.0 | 8.0 | 8.0 | 3.0 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.5 | 0.5 |
| 4 | 12.0 | 11.5 | 8.0 | 7.0 | 4.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.5 | 0.5 |
| 5 | 12.0 | 10.5 | 7.0 | 6.5 | 5.0 | 3.5 | 2.0 | 2.0 | 2.0 | 2.0 | 1.5 | 0.5 |
| 6 | 10.5 | 9.0 | 6.5 | 6.0 | 5.0 | 4.0 | 2.0 | 2.0 | --- | --- | 2.0 | 1.5 |
| 7 | 10.0 | 9.0 | 6.0 | 5.5 | 4.0 | 3.5 | 2.0 | 2.0 | --- | --- | 4.0 | 2.0 |
| 8 | 10.0 | 9.0 | 6.0 | 6.0 | 3.5 | 2.0 | 2.0 | 2.0 | --- | --- | 4.0 | 3.0 |
| 9 | 11.0 | 10.0 | 6.0 | 5.5 | 2.0 | 2.0 | 2.0 | 2.0 | --- | --- | 3.0 | 3.0 |
| 10 | 11.0 | 10.0 | 5.5 | 5.5 | 2.0 | 2.0 | 2.0 | 2.0 | --- | --- | 3.0 | 2.0 |
| 11 | 10.0 | 8.5 | 6.0 | 5.5 | 2.0 | 2.0 | 2.0 | 2.0 | --- | --- | 2.0 | 2.0 |
| 12 | 8.5 | 8.0 | 6.0 | 6.0 | 2.0 | 0.5 | 2.0 | 2.0 | --- | --- | 2.0 | 1.5 |
| 13 | 9.5 | 8.0 | 6.5 | 6.0 | 0.5 | 0.5 | 2.0 | 2.0 | --- | --- | 1.5 | 1.0 |
| 14 | 9.5 | 8.5 | 7.0 | 6.5 | 0.5 | 0.5 | 2.0 | 2.0 | --- | --- | 1.0 | 1.0 |
| 15 | 8.5 | 8.0 | 8.0 | 7.0 | 0.5 | 0.5 | 2.0 | 1.5 | 0.0 | 0.0 | 1.0 | 1.0 |
| 16 | 8.0 | 6.5 | 8.0 | 7.0 | 0.5 | 0.0 | 1.5 | 1.5 | 0.0 | 0.0 | 1.0 | 1.0 |
| 17 | 6.5 | 6.0 | 7.0 | 6.0 | 0.0 | 0.0 | 1.5 | 1.5 | 0.0 | 0.0 | 1.0 | 1.0 |
| 18 | 6.5 | 6.0 | 6.0 | 5.5 | 0.0 | 0.0 | 1.5 | 1.5 | 0.0 | 0.0 | 1.0 | 0.5 |
| 19 | 6.5 | 6.0 | 5.5 | 5.5 | --- | --- | 1.5 | 1.5 | 0.0 | 0.0 | 0.5 | 0.5 |
| 20 | 6.5 | 6.0 | 5.5 | 4.5 | --- | --- | 1.5 | 1.5 | 0.0 | 0.0 | 1.0 | 0.5 |
| 21 | 6.5 | 6.0 | 5.0 | 4.5 | 1.0 | 1.0 | 1.5 | 1.5 | 0.0 | 0.0 | 1.0 | 0.5 |
| 22 | 6.0 | 6.0 | 5.5 | 4.5 | 1.0 | 1.0 | 1.5 | 1.5 | 0.5 | 0.0 | 1.0 | 0.5 |
| 23 | 6.0 | 5.5 | 5.0 | 5.0 | 1.0 | 1.0 | 1.5 | 1.5 | 0.5 | 0.0 | 3.0 | 1.0 |
| 24 | 5.5 | 5.5 | 5.0 | 5.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.0 | 0.0 | 3.0 | 2.0 |
| 25 | 6.0 | 5.5 | 5.5 | 5.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.0 | 1.0 | 2.0 | 2.0 |
| 26 | 7.0 | 6.0 | 5.5 | 5.0 | 1.0 | 1.0 | 1.5 | 1.5 | 1.0 | 1.0 | 2.0 | 1.5 |
| 27 | 7.0 | 6.5 | 5.0 | 5.0 | 3.0 | 1.0 | 1.5 | 1.5 | 1.0 | 1.0 | 3.0 | 1.5 |
| 28 | 6.5 | 6.5 | 6.0 | 5.0 | 3.0 | 3.0 | 1.5 | 1.5 | 1.0 | 1.0 | 3.0 | 1.5 |
| 29 | 7.0 | 6.5 | 6.0 | 5.0 | 3.0 | 3.0 | 2.0 | 1.5 | --- | --- | 2.0 | 1.5 |
| 30 | 8.0 | 7.0 | 5.0 | 4.5 | 3.0 | 3.0 | 3.0 | 2.0 | --- | --- | 1.5 | 1.5 |
| 31 | 8.0 | 7.0 | --- | --- | 3.0 | 2.0 | 3.5 | 2.0 | --- | --- | 1.5 | 1.5 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 3.0 | 1.5 | 12.0 | 10.5 | 14.5 | 14.0 | 17.0 | 15.0 | 18.0 | 15.0 | 17.0 | 16.5 |
| 2 | 3.0 | 1.5 | 10.5 | 8.5 | 14.5 | 13.5 | 17.0 | 14.0 | 18.5 | 15.5 | 17.0 | 16.0 |
| 3 | 5.0 | 1.5 | 11.0 | 9.5 | 14.0 | 13.5 | 19.5 | 16.5 | 19.0 | 18.5 | 17.0 | 15.0 |
| 4 | 6.0 | 4.5 | 10.5 | 9.5 | 15.5 | 13.5 | 20.0 | 17.0 | 19.0 | 18.5 | 15.0 | 14.0 |
| 5 | 6.0 | 5.0 | 10.5 | 8.5 | 16.0 | 14.5 | 20.0 | 18.5 | 19.0 | 16.5 | 15.5 | 11.5 |
| 6 | 5.0 | 3.0 | 10.5 | 9.0 | 16.0 | 14.5 | 19.0 | 16.0 | 17.0 | 15.5 | 14.5 | 13.0 |
| 7 | 4.5 | 3.0 | 9.0 | 8.5 | 16.0 | 15.0 | 19.0 | 15.5 | 17.0 | 15.5 | 15.5 | 13.5 |
| 8 | 4.0 | 3.5 | 10.5 | 8.5 | 16.0 | 16.0 | 19.5 | 16.5 | 17.0 | 15.5 | 16.5 | 14.0 |
| 9 | 3.5 | 3.0 | 11.0 | 10.0 | 18.0 | 16.0 | 20.0 | 17.0 | 17.0 | 16.5 | 16.5 | 15.0 |
| 10 | 3.5 | 3.0 | 10.0 | 10.0 | 20.0 | 18.0 | 20.0 | 18.5 | 18.0 | 16.5 | 16.5 | 15.0 |
| 11 | 5.5 | 3.0 | 13.5 | 9.5 | 19.5 | 16.5 | 18.5 | 15.5 | 17.0 | 15.0 | 17.0 | 15.0 |
| 12 | 4.5 | 3.5 | 13.0 | 10.5 | 16.5 | 14.0 | 17.0 | 14.0 | 16.5 | 14.0 | 18.5 | 17.0 |
| 13 | 7.0 | 4.5 | 10.5 | 10.0 | 14.5 | 12.0 | 18.0 | 14.0 | 19.0 | 16.5 | 19.5 | 18.5 |
| 14 | 8.5 | 5.0 | 14.5 | 9.0 | 15.0 | 14.0 | 19.0 | 15.5 | 19.5 | 18.5 | 19.5 | 14.5 |
| 15 | 8.0 | 5.0 | 17.0 | 12.0 | 16.0 | 15.0 | 19.0 | 18.0 | 18.0 | 15.5 | 14.5 | 13.0 |
| 16 | 6.5 | 5.0 | 16.0 | 11.5 | 16.0 | 16.0 | 19.0 | 17.0 | 18.0 | 14.5 | 14.0 | 13.5 |
| 17 | 8.0 | 4.5 | 15.5 | 13.5 | 18.0 | 16.0 | 17.0 | 14.0 | 18.0 | 17.0 | 13.5 | 12.0 |
| 18 | 8.0 | 5.0 | 16.0 | 12.0 | 18.0 | 15.0 | 18.5 | 16.0 | 19.0 | 18.0 | 14.0 | 13.5 |
| 19 | 8.0 | 5.5 | 15.5 | 12.0 | 16.0 | 15.0 | 19.5 | 18.5 | 18.0 | 15.5 | 14.5 | 13.5 |
| 20 | 8.0 | 4.5 | 15.0 | 11.0 | 18.0 | 16.0 | 18.5 | 16.0 | 19.0 | 16.0 | 15.5 | 14.5 |
| 21 | 9.0 | 5.0 | 15.5 | 12.0 | 17.0 | 15.5 | 16.0 | 14.0 | 18.5 | 17.0 | 15.5 | 14.0 |
| 22 | 9.0 | 8.0 | 15.5 | 13.5 | 18.0 | 15.5 | 16.5 | 14.0 | 18.0 | 16.5 | 14.0 | 11.5 |
| 23 | 8.0 | 6.5 | 15.5 | 14.5 | 18.0 | 16.0 | 16.5 | 15.5 | 19.0 | 17.0 | 12.0 | 10.5 |
| 24 | 6.5 | 6.0 | 14.5 | 12.0 | 16.0 | 14.0 | 15.5 | 15.5 | 19.0 | 17.0 | 11.5 | 9.0 |
| 25 | 8.0 | 6.0 | 13.0 | 11.0 | 15.5 | 15.0 | 16.0 | 15.0 | 17.0 | 15.0 | 10.5 | 10.0 |
| 26 | 8.5 | 7.0 | 11.0 | 11.0 | 15.0 | 14.0 | 16.0 | 15.5 | 16.5 | 14.5 | 12.0 | 10.0 |
| 27 | 10.5 | 7.0 | 11.0 | 10.0 | 15.0 | 14.0 | 19.5 | 16.0 | 19.0 | 16.5 | 14.5 | 10.5 |
| 28 | 12.0 | 9.0 | 12.0 | 10.5 | 15.0 | 14.5 | 19.5 | 17.0 | 18.5 | 16.5 | 14.0 | 13.0 |
| 29 | 13.5 | 11.0 | 12.0 | 11.5 | 15.0 | 15.0 | 19.5 | 18.0 | 17.0 | 16.5 | 15.5 | 14.0 |
| 30 | 13.5 | 12.0 | 15.0 | 12.0 | 15.5 | 14.5 | 19.5 | 17.0 | 16.5 | 16.5 | 14.0 | 12.0 |
| 31 | --- | --- | 15.0 | 14.5 | --- | --- | 19.0 | 16.0 | 17.0 | 15.5 | --- | --- |

## 01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--Lat 42°00'11", long 75°23'02" Delaware County, temperature recorder at gaging station at bridge on County Highway 56 in Hale Eddy, 9 mi (14 km) upstream from confluence of East and West Branches of Hancock.

DRAINAGE AREA.--593 mi² (1,536 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1974.
Water temperatures: October 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.5°C July 8.

**Period of record:**
**Water temperatures: Maximum, 30.5°C July 22, 23, 1972.**

REMARKS.--No water temperature record Nov. 7 to June 4.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 1015 | 1340 | 2.5 | 560 | 430 | -- | 6.2 | -- | 1.8 | -- | 3.0 |
| NOV. 19... | 0945 | 814 | .8 | 330 | 180 | -- | 7.0 | -- | 1.9 | -- | 4.0 |
| DEC. 18... | 1020 | E230 | 3.5 | 90 | 40 | -- | 6.6 | -- | 2.0 | -- | 3.6 |
| JAN. 22... | 1030 | 1030 | 2.4 | 500 | 60 | -- | 6.0 | -- | 1.8 | -- | 3.7 |
| FEB. 20... | 1200 | 580 | 2.4 | 80 | 20 | -- | 6.6 | -- | 1.8 | -- | 3.3 |
| MAR. 21... | 1100 | 698 | 2.3 | 100 | 50 | -- | 6.5 | -- | 2.1 | -- | 3.4 |
| APR. 17... | 1050 | 3330 | 2.6 | 220 | 60 | 6.0 | -- | 1.6 | -- | 2.3 | -- |
| MAY 16... | 1435 | 2080 | 2.6 | 130 | 70 | 5.3 | -- | 1.5 | -- | 2.6 | -- |
| JUNE 27... | 1515 | 118 | 2.0 | 200 | 50 | 7.7 | -- | 2.2 | -- | 3.5 | -- |
| JULY 23... | 1140 | 1160 | -- | 310 | 130 | 8.5 | -- | 1.8 | -- | 2.5 | -- |
| AUG. 22... | 0900 | 351 | -- | 140 | 70 | 8.9 | -- | 2.0 | -- | 2.5 | -- |
| SEP. 18... | 1945 | 45 | -- | 210 | 60 | 11 | -- | 2.2 | -- | 4.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | -- | .9 | 15 | 0 | 12 | 7.4 | 3.5 | -- | .2 | .72 | .00 |
| NOV. 19... | -- | 1.2 | 18 | 0 | 15 | 8.5 | 4.5 | -- | .2 | .44 | .00 |
| DEC. 18... | -- | 1.2 | 13 | 0 | 11 | 12 | 5.9 | -- | .2 | .82 | .04 |
| JAN. 22... | -- | 1.1 | 12 | 0 | 10 | 11 | 6.1 | -- | .1 | .70 | .01 |
| FEB. 20... | -- | 1.2 | 12 | 0 | 10 | 11 | 5.9 | -- | .1 | .89 | .01 |
| MAR. 21... | -- | 1.0 | 14 | 0 | 11 | 10 | 5.6 | -- | .2 | .67 | .01 |
| APR. 17... | 1.2 | -- | 14 | 0 | 11 | 11 | 3.9 | .1 | -- | .63 | .01 |
| MAY 16... | .8 | -- | 12 | 0 | 10 | 9.8 | 3.0 | .0 | -- | .48 | .02 |
| JUNE 27... | 1.9 | -- | 19 | 0 | 16 | 11 | 5.5 | .1 | -- | .50 | .04 |
| JULY 23... | 1.2 | -- | 12 | 0 | 10 | 11 | 3.7 | -- | -- | .57 | .01 |
| AUG. 22... | 1.5 | -- | 16 | 0 | 13 | 10 | 4.0 | -- | -- | .64 | .00 |
| SEP. 18... | 1.1 | -- | 22 | 0 | 18 | 11 | 6.3 | -- | -- | .53 | .00 |

E Estimated value.

## 01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | .02 | .19 | .21 | .94 | .03 | -- | .01 | 33 | 50 | 15 |
| NOV. 19... | .06 | .00 | .06 | .50 | .02 | -- | .01 | 37 | 61 | 39 |
| DEC. 18... | .04 | .00 | .04 | .91 | .01 | -- | .00 | 41 | 65 | 47 |
| JAN. 22... | .12 | .16 | .28 | .99 | .05 | -- | .02 | 38 | 70 | 29 |
| FEB. 20... | .04 | .14 | .18 | 1.1 | .02 | -- | .02 | 42 | 49 | 31 |
| MAR. 21... | .11 | .30 | .41 | 1.1 | .02 | -- | .02 | 38 | 60 | 52 |
| APR. 17... | .04 | .17 | .21 | .85 | .05 | .01 | -- | -- | 41 | 40 |
| MAY 16... | .06 | .25 | .31 | .81 | .03 | .01 | -- | -- | 49 | -- |
| JUNE 27... | .04 | .20 | .24 | .78 | .02 | .01 | -- | -- | 55 | 38 |
| JULY 23... | .11 | .00 | .04 | .62 | .02 | .01 | -- | -- | 51 | 30 |
| AUG. 22... | .01 | .07 | .08 | .72 | .01 | .01 | -- | -- | 49 | 26 |
| SEP. 18... | .12 | .13 | .25 | .78 | .03 | .01 | -- | -- | 63 | 53 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 6 | 0 | 23 | 11 | 70 | 6.5 | 9.0 | -- | -- | 8.6 |
| NOV. 19... | 15 | 14 | 25 | 11 | 76 | 7.0 | 8.0 | -- | -- | 9.7 |
| DEC. 18... | 10 | 8 | 25 | 14 | 85 | 6.6 | .0 | -- | -- | -- |
| JAN. 22... | 8 | 3 | 22 | 13 | 73 | 6.8 | 1.0 | -- | -- | 14.8 |
| FEB. 20... | 0 | 0 | 24 | 14 | 77 | 6.9 | 1.0 | -- | -- | 13.2 |
| MAR. 21... | 6 | 3 | 25 | 13 | 76 | 6.8 | 1.0 | -- | -- | 13.2 |
| APR. 17... | 4 | 3 | -- | -- | 70 | 7.1 | 4.5 | -- | -- | 13.6 |
| MAY 16... | 8 | 2 | -- | -- | 77 | 7.9 | 14.0 | -- | -- | 10.5 |
| JUNE 27... | 4 | 3 | -- | -- | 85 | 8.3 | 21.0 | -- | -- | 10.2 |
| JULY 23... | 3 | 1 | -- | -- | 82 | -- | 10.0 | 0 | 2 | 15.1 |
| AUG. 22... | 1 | 0 | -- | -- | 76 | -- | 10.0 | 0 | 1 | 12.1 |
| SEP. 18... | 2 | 1 | -- | -- | 110 | -- | 16.0 | 1 | 10 | 11.7 |

## 01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 74 | 4 | B120 | B10 | -- | .0 | -- | -- | -- | -- |
| NOV. 19... | 82 | 5 | B100 | B7 | -- | .0 | -- | -- | -- | -- |
| DEC. 18... | -- | 3 | -- | -- | -- | .0 | -- | -- | -- | -- |
| JAN. 22... | 105 | 6 | 220 | 65 | -- | .0 | -- | -- | -- | -- |
| FEB. 20... | 94 | 5 | 200 | B32 | -- | .0 | -- | -- | -- | -- |
| MAR. 21... | 94 | 6 | 72 | 29 | -- | .0 | -- | -- | -- | -- |
| APR. 17... | 105 | 5 | 60 | B10 | -- | .0 | 1 | 10 | 1 | <.5 |
| MAY 16... | 103 | 10 | 140 | B7 | -- | .0 | -- | -- | -- | -- |
| JUNE 27... | 113 | 7 | 630 | B36 | -- | .0 | -- | -- | -- | -- |
| JULY 23... | 134 | 6 | 680 | B26 | -- | -- | -- | -- | -- | -- |
| AUG. 22... | 114 | 5 | -- | 45 | 1.8 | -- | 0 | 0 | 0 | <.5 |
| SEP. 18... | 118 | 5 | -- | 26 | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

### WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 10.5 | 6.0 | 8.0 | 6.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 11.0 | 7.0 | 9.5 | 5.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 17.0 | 8.0 | 8.5 | 5.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 10.5 | 8.0 | 5.0 | 3.5 | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 11.5 | 7.0 | 5.0 | 2.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 11.5 | 7.0 | 6.0 | 5.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 10.5 | 6.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 13.0 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 14.0 | 10.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 16.5 | 11.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 13.0 | 6.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 9.0 | 6.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 9.5 | 6.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 9.5 | 6.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 9.5 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | 8.5 | 6.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 8.5 | 6.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | 7.0 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 9.0 | 6.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 9.0 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 10.5 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 10.0 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | 11.0 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | 10.5 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | 10.5 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | 10.5 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | 9.5 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | 9.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 10.0 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 10.0 | 7.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 9.5 | 5.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | --- | --- | --- | --- | --- | --- | 23.0 | 15.5 | 23.5 | 16.0 | 19.5 | 14.0 |
| 2 | --- | --- | --- | --- | --- | --- | 25.5 | 17.0 | 23.5 | 15.0 | 19.5 | 15.5 |
| 3 | --- | --- | --- | --- | --- | --- | 26.5 | 20.0 | 18.0 | 11.5 | 18.0 | 14.0 |
| 4 | --- | --- | --- | --- | --- | --- | 29.0 | 21.0 | 22.0 | 16.0 | 14.5 | 13.0 |
| 5 | --- | --- | --- | --- | 21.5 | 14.5 | 25.5 | 22.0 | 21.5 | 18.0 | 18.5 | 10.5 |
| 6 | --- | --- | --- | --- | 22.0 | 15.0 | 27.0 | 19.0 | 25.0 | 17.0 | 15.0 | 13.0 |
| 7 | --- | --- | --- | --- | 21.5 | 14.5 | 28.5 | 19.5 | 21.5 | 18.0 | 18.5 | 13.0 |
| 8 | --- | --- | --- | --- | 21.5 | 16.0 | 29.5 | 20.0 | 14.5 | 8.5 | 21.0 | 14.5 |
| 9 | --- | --- | --- | --- | 25.5 | 17.0 | 29.0 | 21.0 | 12.0 | 8.0 | 21.0 | 16.0 |
| 10 | --- | --- | --- | --- | 28.5 | 20.0 | 25.0 | 13.0 | 12.0 | 6.5 | 21.5 | 16.0 |
| 11 | --- | --- | --- | --- | 23.5 | 19.5 | 15.5 | 7.0 | 17.0 | 6.5 | 23.0 | 16.0 |
| 12 | --- | --- | --- | --- | 19.5 | 16.0 | 12.0 | 5.5 | 16.0 | 8.5 | 24.5 | 18.0 |
| 13 | --- | --- | --- | --- | 16.5 | 8.0 | 13.0 | 5.5 | 14.0 | 8.5 | 25.0 | 19.5 |
| 14 | --- | --- | --- | --- | 11.0 | 5.5 | 13.0 | 6.0 | 15.5 | 7.0 | 22.0 | 15.0 |
| 15 | --- | --- | --- | --- | 13.0 | 6.0 | 13.5 | 7.0 | 13.5 | 6.5 | 19.5 | 13.0 |
| 16 | --- | --- | --- | --- | 15.5 | 12.0 | 16.5 | 13.0 | 11.0 | 6.0 | 19.0 | 13.5 |
| 17 | --- | --- | --- | --- | 23.5 | 14.5 | 13.0 | 6.0 | 8.5 | 6.5 | 18.0 | 13.0 |
| 18 | --- | --- | --- | --- | 21.5 | 14.5 | 11.0 | 6.0 | 12.0 | 6.5 | 17.0 | 14.0 |
| 19 | --- | --- | --- | --- | 20.5 | 14.5 | 11.5 | 6.5 | 14.0 | 6.5 | 19.5 | 13.5 |
| 20 | --- | --- | --- | --- | 23.5 | 16.5 | 11.0 | 6.0 | 15.0 | 7.0 | 16.5 | 9.0 |
| 21 | --- | --- | --- | --- | 19.0 | 14.5 | 11.5 | 5.5 | 13.5 | 9.0 | 11.5 | 8.0 |
| 22 | --- | --- | --- | --- | 20.5 | 14.0 | 15.0 | 6.0 | 13.5 | 9.0 | 14.0 | 10.0 |
| 23 | --- | --- | --- | --- | 18.0 | 15.0 | 10.0 | 6.5 | 12.0 | 8.0 | 14.5 | 11.5 |
| 24 | --- | --- | --- | --- | 20.0 | 13.0 | 7.0 | 6.5 | 10.5 | 7.0 | 16.0 | 11.0 |
| 25 | --- | --- | --- | --- | 18.5 | 15.0 | 9.5 | 6.0 | 15.5 | 7.0 | 14.5 | 11.5 |
| 26 | --- | --- | --- | --- | 17.0 | 14.0 | 9.0 | 6.0 | 14.5 | 9.0 | 16.5 | 13.0 |
| 27 | --- | --- | --- | --- | 21.0 | 14.0 | 11.5 | 6.5 | 14.0 | 8.5 | 18.5 | 10.5 |
| 28 | --- | --- | --- | --- | 21.0 | 16.0 | 11.5 | 6.5 | 10.0 | 8.0 | 16.0 | 14.0 |
| 29 | --- | --- | --- | --- | 19.0 | 16.0 | 14.0 | 6.5 | 15.0 | 10.0 | 18.0 | 15.5 |
| 30 | --- | --- | --- | --- | 19.5 | 15.0 | 16.0 | 9.0 | 17.0 | 10.5 | 16.0 | 10.5 |
| 31 | --- | --- | --- | --- | --- | --- | 22.0 | 15.0 | 14.0 | 8.0 | --- | --- |

## 01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'08", long 75°17'31", Delaware County, N.Y.-Wayne County, Pa., at former gaging station, at bridge at end of Pennsylvania State Highway 191 in Hancock and 1.3 mi (2.1 km) upstream from confluence with East Branch.

DRAINAGE AREA.--648 mi$^2$ (1,678 km$^2$).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 19... | 0755 | 1150 | 2.3 | -- | 6.7 | -- | 1.9 | -- | 2.7 | -- | 1.0 |
| NOV. | | | | | | | | | | | |
| 28... | 1340 | 640 | -- | -- | 6.5 | -- | 2.4 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 19... | 0900 | 1230 | -- | -- | 5.8 | -- | 1.7 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 23... | 0845 | 1520 | 2.8 | -- | 6.0 | -- | 1.6 | -- | 3.2 | -- | 1.1 |
| FEB. | | | | | | | | | | | |
| 27... | 0810 | 2070 | -- | -- | 6.0 | -- | 1.7 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 03... | 1150 | 2720 | -- | -- | 6.0 | -- | 1.6 | -- | -- | -- | -- |
| 24... | 1320 | 1200 | -- | 5.3 | -- | 1.6 | -- | 2.2 | -- | 1.0 | -- |
| MAY | | | | | | | | | | | |
| 23... | 1030 | 880 | -- | 6.2 | -- | 1.7 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 20... | 0830 | 115 | -- | 13 | -- | 1.4 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 01... | 1400 | 130 | .7 | 8.0 | -- | 2.1 | -- | 3.4 | -- | 1.1 | -- |
| 28... | 1130 | 530 | -- | 8.5 | -- | 1.9 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 19... | 1045 | 95 | -- | 8.0 | -- | 2.7 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 19... | 16 | 0 | 13 | 9.2 | 4.1 | -- | .5 | .71 | .00 | .71 | .01 |
| NOV. | | | | | | | | | | | |
| 28... | 15 | 0 | 12 | -- | -- | -- | -- | .43 | .00 | .43 | .08 |
| DEC. | | | | | | | | | | | |
| 19... | 11 | 0 | 9 | -- | -- | -- | -- | .60 | .00 | .60 | .05 |
| JAN. | | | | | | | | | | | |
| 23... | 12 | 0 | 10 | 9.8 | 5.0 | -- | .0 | .60 | .00 | .60 | .06 |
| FEB. | | | | | | | | | | | |
| 27... | 11 | 0 | 9 | -- | -- | -- | -- | .78 | .01 | .79 | .05 |
| APR. | | | | | | | | | | | |
| 03... | 10 | 0 | 8 | -- | -- | -- | -- | .49 | .00 | .49 | .06 |
| 24... | 12 | 0 | 10 | 10 | 3.8 | .2 | -- | .57 | .00 | .57 | .06 |
| MAY | | | | | | | | | | | |
| 23... | 15 | 0 | 12 | -- | -- | -- | -- | .43 | .01 | .44 | .11 |
| JUNE | | | | | | | | | | | |
| 20... | 11 | 0 | 9 | -- | -- | -- | -- | .31 | .01 | .32 | .11 |
| AUG. | | | | | | | | | | | |
| 01... | 18 | 0 | 15 | 12 | 5.3 | .2 | -- | .16 | .01 | .17 | .17 |
| 28... | 13 | 0 | 11 | -- | -- | -- | -- | .64 | .00 | .64 | .05 |
| SEP. | | | | | | | | | | | |
| 19... | 22 | 0 | 18 | -- | -- | -- | -- | .25 | .00 | .25 | .14 |

CONTINUED NEXT PAGE

## 01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 19... | .13 | .14 | .85 | .03 | -- | .01 | 36 | 4 | -- | 25 |
| NOV. | | | | | | | | | | |
| 28... | .04 | .12 | .55 | .02 | -- | .01 | -- | 8 | -- | 26 |
| DEC. | | | | | | | | | | |
| 19... | -- | .04 | .64 | .01 | -- | .00 | -- | 6 | 53 | 21 |
| JAN. | | | | | | | | | | |
| 23... | .37 | .43 | 1.0 | .04 | -- | .02 | 35 | 21 | 36 | 22 |
| FEB. | | | | | | | | | | |
| 27... | .10 | .15 | .94 | .03 | -- | .02 | -- | 1 | 31 | 22 |
| APR. | | | | | | | | | | |
| 03... | .10 | .16 | .65 | .02 | -- | .01 | -- | 7 | 50 | 22 |
| 24... | .42 | .48 | 1.1 | .03 | .00 | -- | -- | 5 | 33 | -- |
| MAY | | | | | | | | | | |
| 23... | .31 | .42 | .86 | .02 | .01 | -- | -- | 8 | -- | -- |
| JUNE | | | | | | | | | | |
| 20... | .13 | .24 | .56 | .01 | .00 | -- | -- | 0 | 38 | -- |
| AUG. | | | | | | | | | | |
| 01... | .06 | .23 | .40 | .02 | .01 | -- | -- | 7 | 55 | -- |
| 28... | .11 | .16 | .80 | .01 | .01 | -- | -- | 1 | 49 | -- |
| SEP. | | | | | | | | | | |
| 19... | .00 | .12 | .37 | .01 | .01 | -- | -- | 1 | 57 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 19... | 11 | 72 | 6.7 | 7.0 | 9.8 | 82 | 1.4 | 5.4 | -- | 29 |
| NOV. | | | | | | | | | | |
| 28... | 14 | 74 | 7.2 | 8.0 | 10.2 | 87 | 4.5 | 2.7 | -- | B160 |
| DEC. | | | | | | | | | | |
| 19... | 12 | 98 | 6.4 | .0 | 13.6 | 94 | .4 | .9 | -- | 31 |
| JAN. | | | | | | | | | | |
| 23... | 12 | 72 | 6.1 | 1.0 | 13.5 | 95 | 1.9 | 1.6 | -- | 42 |
| FEB. | | | | | | | | | | |
| 27... | 13 | 73 | 6.1 | .0 | 13.4 | 93 | .0 | 1.3 | -- | 26 |
| APR. | | | | | | | | | | |
| 03... | 13 | 63 | 6.4 | 6.0 | 12.0 | 97 | 2.5 | 3.9 | -- | 10 |
| 24... | -- | 60 | 5.9 | 5.0 | 12.7 | 101 | .0 | 6.8 | 14 | B39 |
| MAY | | | | | | | | | | |
| 23... | -- | 63 | 7.5 | 16.0 | 9.4 | 94 | 2.0 | 5.2 | 9.1 | 80 |
| JUNE | | | | | | | | | | |
| 20... | -- | 92 | 7.4 | 20.0 | 8.4 | 91 | 1.1 | 2.0 | 6.7 | 53 |
| AUG. | | | | | | | | | | |
| 01... | -- | 83 | 9.1 | 24.0 | 10.8 | 127 | 1.8 | 5.0 | 2.0 | 44 |
| 28... | -- | 74 | 6.9 | 12.0 | 10.6 | 98 | .6 | .0 | .0 | B190 |
| SEP. | | | | | | | | | | |
| 19... | -- | 97 | 7.1 | 16.0 | 10.4 | 106 | 1.0 | 5.3 | 2.0 | 33 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01427207 DELAWARE RIVER AT LORDVILLE, N.Y.

LOCATION.--Lat 41°52'05", long 75°12'50", Delaware County, temperature recorder at Lordville-Equinuck interstate bridge at Lordville, 50 ft (15 m) downstream from Humphries Brook and 6.5 mi (10.4 km) southeast of Hancock.

DRAINAGE AREA.--1,587 mi$^2$ (4,110 km$^2$).

PERIOD OF RECORD.--Water temperatures: October 1967 to August 1971, June 1973 to September 1974.

EXTREMES, 1973-4.--Water temperatures: Minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1967-70, 73) 28.5°C Aug. 10, 1973; minimum (1967-71, 74), freezing point on many days during winter periods.

REMARKS.--No record Nov. 28 to Dec. 3, and Jan. 26 to Feb. 20. Record considered unreliable May 13 to Sept. 30.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 13.0 | 11.0 | 12.0 | 9.5 | 8.5 | 9.5 | --- | --- | --- | 2.5 | 1.5 | 2.0 |
| 2 | 12.5 | 11.0 | 11.5 | 9.5 | 8.0 | 8.5 | --- | --- | --- | 1.5 | 0.5 | 1.0 |
| 3 | 14.5 | 11.5 | 12.5 | 9.0 | 8.0 | 8.5 | --- | --- | --- | 1.5 | 1.0 | 1.0 |
| 4 | 15.0 | 12.0 | 13.5 | 8.0 | 6.0 | 6.5 | 4.0 | 2.5 | 3.0 | 1.5 | 0.5 | 1.5 |
| 5 | 14.0 | 12.0 | 13.0 | 6.0 | 5.0 | 5.5 | 7.5 | 4.0 | 5.5 | 0.5 | 0.0 | 0.0 |
| 6 | 14.0 | 11.0 | 12.5 | 5.0 | 3.5 | 4.0 | 7.5 | 6.0 | 7.5 | 0.5 | 0.0 | 0.5 |
| 7 | 13.0 | 12.0 | 12.5 | 4.5 | 3.5 | 4.0 | 6.0 | 4.5 | 5.0 | 1.0 | 0.0 | 0.5 |
| 8 | 13.5 | 11.5 | 12.0 | 5.0 | 4.0 | 4.5 | 4.5 | 3.5 | 3.5 | 0.5 | 0.0 | 0.0 |
| 9 | 14.5 | 13.0 | 13.5 | 5.5 | 5.0 | 5.0 | 4.5 | 3.5 | 3.5 | 0.0 | 0.0 | 0.0 |
| 10 | 16.0 | 14.0 | 14.5 | 5.0 | 4.0 | 4.5 | 5.0 | 4.5 | 5.0 | 0.5 | 0.0 | 0.0 |
| 11 | 15.5 | 13.5 | 14.0 | 6.0 | 4.5 | 5.0 | 5.0 | 3.5 | 4.0 | 0.0 | 0.0 | 0.0 |
| 12 | 14.0 | 10.0 | 11.5 | 6.5 | 5.5 | 6.0 | 3.5 | 2.5 | 3.0 | 0.0 | 0.0 | 0.0 |
| 13 | 11.0 | 9.5 | 10.5 | 7.5 | 6.5 | 7.0 | 2.5 | 1.5 | 2.0 | 0.0 | 0.0 | 0.0 |
| 14 | 11.0 | 10.0 | 10.5 | 9.5 | 8.0 | 8.5 | 3.0 | 2.0 | 2.5 | 0.0 | 0.0 | 0.0 |
| 15 | 10.0 | 9.0 | 9.5 | 9.0 | 8.0 | 8.5 | 3.0 | 1.5 | 2.0 | 0.0 | 0.0 | 0.0 |
| 16 | 9.5 | 8.0 | 8.5 | 9.5 | 7.0 | 8.5 | 1.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 17 | 8.0 | 7.5 | 7.5 | 6.5 | 5.0 | 5.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 18 | 8.0 | 7.5 | 7.5 | 6.0 | 5.0 | 5.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 19 | 8.0 | 7.0 | 7.5 | 7.0 | 6.0 | 6.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 20 | 9.0 | 8.0 | 8.5 | 6.5 | 5.0 | 5.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 21 | 9.5 | 8.5 | 9.0 | 5.0 | 4.5 | 4.5 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 22 | 9.0 | 8.0 | 9.0 | 6.0 | 4.5 | 5.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 23 | 9.5 | 8.0 | 8.5 | 7.5 | 6.0 | 7.0 | 1.0 | 0.5 | 1.0 | 0.0 | 0.0 | 0.0 |
| 24 | 9.5 | 8.0 | 9.0 | 7.0 | 7.0 | 7.0 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 25 | 9.5 | 8.5 | 9.0 | 7.5 | 7.0 | 7.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.5 |
| 26 | 10.0 | 8.5 | 9.0 | 7.0 | 6.5 | 6.5 | 2.0 | 0.5 | 1.0 | --- | --- | --- |
| 27 | 9.5 | 8.5 | 9.0 | 6.5 | 6.0 | 6.0 | 3.5 | 2.0 | 3.0 | --- | --- | --- |
| 28 | 8.5 | 7.5 | 8.0 | --- | --- | --- | 4.0 | 3.5 | 3.5 | --- | --- | --- |
| 29 | 8.5 | 7.5 | 7.5 | --- | --- | --- | 3.5 | 3.0 | 3.0 | --- | --- | --- |
| 30 | 9.0 | 8.5 | 9.0 | --- | --- | --- | 3.5 | 2.0 | 3.0 | --- | --- | --- |
| 31 | 9.5 | 7.5 | 8.5 | --- | --- | --- | 2.0 | 1.5 | 1.5 | --- | --- | --- |

| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | --- | --- | --- | 2.5 | 1.5 | 2.0 | 5.0 | 2.5 | 4.0 | 14.0 | 10.5 | 12.0 |
| 2 | --- | --- | --- | 2.0 | 1.5 | 1.5 | 4.5 | 3.5 | 4.0 | 11.0 | 9.5 | 10.5 |
| 3 | --- | --- | --- | 3.5 | 2.0 | 2.5 | 6.0 | 3.0 | 5.0 | 10.5 | 9.0 | 9.5 |
| 4 | --- | --- | --- | 4.0 | 3.0 | 3.5 | 7.5 | 5.5 | 6.5 | 11.0 | 8.5 | 9.5 |
| 5 | --- | --- | --- | 4.0 | 2.0 | 3.5 | 7.5 | 5.0 | 6.0 | 11.0 | 8.0 | 10.0 |
| 6 | --- | --- | --- | 4.5 | 3.5 | 4.0 | 5.0 | 3.5 | 4.5 | 10.0 | 8.0 | 9.0 |
| 7 | --- | --- | --- | 5.0 | 3.5 | 4.0 | 4.5 | 3.0 | 3.5 | 8.0 | 7.5 | 8.0 |
| 8 | --- | --- | --- | 3.5 | 2.0 | 3.0 | 4.5 | 4.0 | 4.5 | 10.5 | 7.0 | 9.0 |
| 9 | --- | --- | --- | 3.5 | 2.0 | 2.5 | 4.0 | 2.5 | 3.0 | 10.5 | 10.0 | 10.0 |
| 10 | --- | --- | --- | 3.5 | 1.0 | 2.5 | 4.0 | 2.5 | 3.0 | 10.0 | 9.5 | 10.0 |
| 11 | --- | --- | --- | 3.0 | 2.0 | 2.5 | 5.5 | 3.0 | 4.0 | 13.0 | 8.5 | 11.0 |
| 12 | --- | --- | --- | 3.0 | 0.0 | 1.0 | 5.5 | 4.5 | 5.0 | 12.5 | 10.5 | 11.5 |
| 13 | --- | --- | --- | 1.5 | 0.0 | 0.0 | 6.5 | 5.0 | 6.0 | --- | --- | --- |
| 14 | --- | --- | --- | 2.0 | 0.5 | 1.5 | 8.0 | 5.5 | 7.0 | --- | --- | --- |
| 15 | --- | --- | --- | 3.0 | 2.0 | 2.5 | 7.5 | 5.0 | 6.5 | --- | --- | --- |
| 16 | --- | --- | --- | 3.0 | 2.0 | 2.5 | 6.5 | 5.0 | 5.5 | --- | --- | --- |
| 17 | --- | --- | --- | 2.0 | 0.0 | 1.0 | 7.0 | 5.0 | 6.0 | --- | --- | --- |
| 18 | --- | --- | --- | 3.0 | 1.0 | 2.0 | 7.5 | 6.0 | 7.0 | --- | --- | --- |
| 19 | --- | --- | --- | 2.0 | 1.0 | 1.5 | 7.5 | 6.0 | 7.0 | --- | --- | --- |
| 20 | --- | --- | --- | 4.0 | 1.5 | 3.0 | 8.0 | 5.5 | 7.0 | --- | --- | --- |
| 21 | 1.5 | 0.0 | 0.5 | 2.5 | 0.5 | 1.5 | 9.0 | 6.5 | 8.0 | --- | --- | --- |
| 22 | 1.0 | 0.0 | 1.0 | 2.5 | 1.0 | 2.0 | 9.0 | 8.5 | 9.0 | --- | --- | --- |
| 23 | 1.0 | 0.0 | 0.5 | 5.0 | 1.5 | 4.0 | 9.0 | 7.5 | 8.5 | --- | --- | --- |
| 24 | 1.5 | 0.0 | 1.0 | 4.0 | 0.0 | 2.5 | 8.0 | 6.0 | 7.0 | --- | --- | --- |
| 25 | 2.0 | 0.0 | 1.0 | 3.0 | 0.5 | 2.0 | 8.0 | 5.5 | 7.0 | --- | --- | --- |
| 26 | 1.5 | 0.0 | 0.5 | 3.5 | 1.0 | 2.5 | 9.5 | 8.0 | 8.5 | --- | --- | --- |
| 27 | 2.0 | 0.0 | 1.0 | 4.0 | 1.5 | 3.0 | 10.5 | 8.0 | 9.5 | --- | --- | --- |
| 28 | 2.0 | 1.0 | 2.0 | 4.5 | 2.5 | 3.5 | 12.0 | 10.0 | 11.0 | --- | --- | --- |
| 29 | --- | --- | --- | 3.0 | 0.0 | 0.0 | 14.0 | 12.0 | 13.5 | --- | --- | --- |
| 30 | --- | --- | --- | 1.0 | 0.0 | 0.0 | 13.5 | 12.0 | 13.0 | --- | --- | --- |
| 31 | --- | --- | --- | 3.0 | 1.0 | 2.5 | --- | --- | --- | --- | --- | --- |

## 01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, temperature recorder at gaging station 500 ft (152 m) downstream from Hollister Creek, 1.3 mi (2.1 km) northwest of Callicoon and 1.4 mi (2.3 km) upstream from Callicoon Creek.

DRAINAGE AREA.--1,70b mi² (4,419 km²).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1974.

EXTREMES.--Period of record:
Water temperatures (1967-73): Maximum, 31.5°C July 23, 1972, Aug. 30,31, 1973; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature record unreliable Oct. 7-23, Dec. 1-5, 19 to Feb. 8, Mar. 13-15, 17 to Apr. 11, May 28, June 3 to July 31, Aug. 27 to Sept. 30.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 16.5 | 11.0 | 13.5 | 9.5 | 7.5 | 8.5 | --- | --- | --- | --- | --- | --- |
| 2 | 13.0 | 12.0 | 12.5 | 11.0 | 6.5 | 8.5 | --- | --- | --- | --- | --- | --- |
| 3 | 18.0 | 12.5 | 15.0 | 10.0 | 6.5 | 8.5 | --- | --- | --- | --- | --- | --- |
| 4 | 17.5 | 14.0 | 16.0 | 6.5 | 4.5 | 5.5 | --- | --- | --- | --- | --- | --- |
| 5 | 17.0 | 11.5 | 14.5 | 5.5 | 4.0 | 4.5 | --- | --- | --- | --- | --- | --- |
| 6 | 16.5 | 10.5 | 13.0 | 4.5 | 2.0 | 3.0 | 7.5 | 6.0 | 6.5 | --- | --- | --- |
| 7 | --- | --- | --- | 3.5 | 2.0 | 2.5 | 6.0 | 4.0 | 5.0 | --- | --- | --- |
| 8 | --- | --- | --- | 2.5 | 1.0 | 2.0 | 3.5 | 2.5 | 3.0 | --- | --- | --- |
| 9 | --- | --- | --- | 3.5 | 1.5 | 2.5 | 3.5 | 2.5 | 3.0 | --- | --- | --- |
| 10 | --- | --- | --- | 3.5 | 1.0 | 2.0 | 4.5 | 3.5 | 4.0 | --- | --- | --- |
| 11 | --- | --- | --- | 3.5 | 1.5 | 2.5 | 5.0 | 4.0 | 4.5 | --- | --- | --- |
| 12 | --- | --- | --- | 4.5 | 2.5 | 3.5 | 4.0 | 2.5 | 3.5 | --- | --- | --- |
| 13 | --- | --- | --- | 5.5 | 4.0 | 5.0 | 2.5 | 1.5 | 2.0 | --- | --- | --- |
| 14 | --- | --- | --- | 9.0 | 5.5 | 7.0 | 2.5 | 2.0 | 2.5 | --- | --- | --- |
| 15 | --- | --- | --- | 9.0 | 6.5 | 8.0 | 3.0 | 1.5 | 2.0 | --- | --- | --- |
| 16 | --- | --- | --- | 8.5 | 5.5 | 7.5 | 1.5 | 0.0 | 0.5 | --- | --- | --- |
| 17 | --- | --- | --- | 6.0 | 4.0 | 5.0 | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 18 | --- | --- | --- | 6.0 | 3.5 | 5.0 | 1.5 | 0.0 | 0.0 | --- | --- | --- |
| 19 | --- | --- | --- | 7.5 | 4.0 | 5.5 | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | 6.5 | 1.0 | 4.0 | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | 4.0 | 2.0 | 3.0 | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | 6.5 | 4.0 | 5.0 | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | 7.0 | 4.0 | 5.5 | --- | --- | --- | --- | --- | --- |
| 24 | 12.0 | 7.0 | 9.0 | 7.0 | 4.5 | 6.0 | --- | --- | --- | --- | --- | --- |
| 25 | 11.5 | 6.5 | 9.0 | 7.5 | 6.5 | 7.0 | --- | --- | --- | --- | --- | --- |
| 26 | 11.5 | 7.0 | 9.5 | 8.0 | 5.0 | 6.5 | --- | --- | --- | --- | --- | --- |
| 27 | 11.0 | 7.5 | 9.0 | 6.0 | 4.5 | 5.5 | --- | --- | --- | --- | --- | --- |
| 28 | 8.0 | 6.5 | 7.0 | 8.5 | 6.0 | 7.5 | --- | --- | --- | --- | --- | --- |
| 29 | 7.0 | 6.0 | 6.5 | 8.0 | 4.0 | 6.5 | --- | --- | --- | --- | --- | --- |
| 30 | 8.5 | 7.5 | 8.0 | 7.5 | 3.5 | 5.0 | --- | --- | --- | --- | --- | --- |
| 31 | 10.5 | 6.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | --- | --- | --- | 3.5 | 2.5 | 3.0 | --- | --- | --- | 16.5 | 12.0 | 14.0 |
| 2 | --- | --- | --- | 2.5 | 2.0 | 2.5 | --- | --- | --- | 12.0 | 9.5 | 11.0 |
| 3 | --- | --- | --- | 2.5 | 2.5 | 2.5 | --- | --- | --- | 10.0 | 9.0 | 9.5 |
| 4 | --- | --- | --- | 5.5 | 2.5 | 4.0 | --- | --- | --- | 12.0 | 8.0 | 9.5 |
| 5 | --- | --- | --- | 7.0 | 3.5 | 5.0 | --- | --- | --- | 12.0 | 6.5 | 9.5 |
| 6 | --- | --- | --- | 5.5 | 1.5 | 3.5 | --- | --- | --- | 9.0 | 7.0 | 8.0 |
| 7 | --- | --- | --- | 7.0 | 4.0 | 5.0 | --- | --- | --- | 7.5 | 6.0 | 6.5 |
| 8 | --- | --- | --- | 6.5 | 3.0 | 4.5 | --- | --- | --- | 10.5 | 4.5 | 7.5 |
| 9 | 1.5 | 0.0 | 0.0 | 3.0 | 1.5 | 2.0 | --- | --- | --- | 10.5 | 9.5 | 10.0 |
| 10 | 2.0 | 0.0 | 0.0 | 5.0 | 1.0 | 2.5 | --- | --- | --- | 10.5 | 9.5 | 10.0 |
| 11 | 1.0 | 0.0 | 0.0 | 5.0 | 0.0 | 3.0 | --- | --- | --- | 14.5 | 8.0 | 11.0 |
| 12 | 1.0 | 0.0 | 0.0 | 5.5 | 1.0 | 3.0 | 8.0 | 5.5 | 7.0 | 11.0 | 8.5 | 10.0 |
| 13 | 3.5 | 0.0 | 1.0 | --- | --- | --- | 10.0 | 7.5 | 8.5 | 9.0 | 8.0 | 8.5 |
| 14 | 2.0 | 0.0 | 0.5 | --- | --- | --- | 10.5 | 7.0 | 8.5 | 12.5 | 7.0 | 9.5 |
| 15 | 1.5 | 0.0 | 0.0 | --- | --- | --- | 10.0 | 6.0 | 8.5 | 15.5 | 11.5 | 13.5 |
| 16 | 0.5 | 0.0 | 0.0 | 2.0 | 0.0 | 1.5 | 8.0 | 5.0 | 6.5 | 16.0 | 12.5 | 14.5 |
| 17 | 1.0 | 0.0 | 0.0 | --- | --- | --- | 7.5 | 4.0 | 6.0 | 17.5 | 13.5 | 15.5 |
| 18 | 3.0 | 0.0 | 0.5 | --- | --- | --- | 8.5 | 5.5 | 7.0 | 18.5 | 14.5 | 16.0 |
| 19 | 0.0 | 0.0 | 0.0 | --- | --- | --- | 9.5 | 7.0 | 8.0 | 18.5 | 14.0 | 16.0 |
| 20 | 1.0 | 0.0 | 0.0 | --- | --- | --- | 8.0 | 5.0 | 6.5 | 16.0 | 12.0 | 14.5 |
| 21 | 5.0 | 0.0 | 1.5 | --- | --- | --- | 10.0 | 5.0 | 7.5 | 15.5 | 12.0 | 14.0 |
| 22 | 1.5 | 0.0 | 0.0 | --- | --- | --- | 10.5 | 8.5 | 9.5 | 19.0 | 14.0 | 16.0 |
| 23 | 1.5 | 0.0 | 1.0 | --- | --- | --- | 10.5 | 8.0 | 10.0 | 18.5 | 17.0 | 18.0 |
| 24 | 2.5 | 0.0 | 0.5 | --- | --- | --- | 8.5 | 5.5 | 7.0 | 19.0 | 15.5 | 17.0 |
| 25 | 1.5 | 0.5 | 1.0 | --- | --- | --- | 9.5 | 4.0 | 7.0 | 16.5 | 14.5 | 15.5 |
| 26 | 3.0 | 0.0 | 1.0 | --- | --- | --- | 12.0 | 7.5 | 9.5 | 16.0 | 13.0 | 14.5 |
| 27 | 3.5 | 0.0 | 0.5 | --- | --- | --- | 12.5 | 7.0 | 9.5 | 14.0 | 12.0 | 13.0 |
| 28 | 3.5 | 0.0 | 1.5 | --- | --- | --- | 15.0 | 9.0 | 12.0 | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | 19.0 | 13.0 | 15.5 | 14.5 | 13.0 | 14.0 |
| 30 | --- | --- | --- | --- | --- | --- | 16.5 | 14.5 | 15.0 | 20.0 | 13.0 | 16.0 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.5 | 15.0 | 16.0 |

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 18.0 | 14.5 | 16.0 | --- | --- | --- | 24.5 | 18.5 | 21.5 | --- | --- | --- |
| 2 | 15.5 | 14.0 | 14.5 | --- | --- | --- | 25.0 | 20.5 | 22.5 | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | 25.0 | 22.0 | 23.0 | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | 25.0 | 22.0 | 23.5 | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | 24.0 | 20.0 | 22.0 | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | 25.0 | 19.5 | 22.0 | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | 25.5 | 19.5 | 22.0 | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | 25.5 | 20.0 | 23.0 | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | 24.0 | 21.5 | 23.0 | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | 25.0 | 20.0 | 22.5 | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | 24.0 | 17.0 | 20.5 | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | 24.5 | 16.5 | 20.5 | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | 25.5 | 19.5 | 22.5 | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | 27.0 | 21.5 | 24.0 | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | 25.5 | 19.5 | 22.5 | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | 25.0 | 18.0 | 21.5 | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | 20.5 | 16.5 | 18.0 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | 19.0 | 14.0 | 16.5 | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | 22.0 | 14.5 | 18.0 | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | 24.5 | 18.0 | 21.0 | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | 25.5 | 19.5 | 22.5 | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | 23.5 | 20.0 | 21.5 | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | 24.5 | 20.5 | 22.0 | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | 22.0 | 19.0 | 20.5 | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | 22.0 | 17.0 | 19.5 | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | 19.5 | 17.0 | 18.0 | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

## 01427500 CALLICOON CREEK AT CALLICOON, N.Y.

**LOCATION.**--Lat 41°45'39", long 75°02'55", Sullivan County, at gaging station, 0.7 mi (1.1 km) southeast of Callicoon, 0.9 mi (1.4 km) upstream from mouth and 1.0 mi (1.6 km) southwest of Hortonville.

**DRAINAGE AREA.**--111 $mi^2$ (287 $km^2$).

**PERIOD OF RECORD.**--Chemical analyses, May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | 0815 | 33 | 2.0 | -- | 10 | -- | 2.1 | -- | 3.2 | -- | 1.6 |
| NOV. | | | | | | | | | | | |
| 29... | 0955 | 446 | -- | -- | 7.5 | -- | 2.1 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 19... | 1630 | 173 | -- | -- | 7.8 | -- | 1.5 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 24... | 1630 | 334 | 3.2 | -- | 7.5 | -- | 1.5 | -- | 3.7 | -- | 1.4 |
| FEB. | | | | | | | | | | | |
| 27... | 1210 | 150 | -- | -- | 7.0 | -- | 1.3 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 04... | 1630 | 520 | -- | -- | 6.7 | -- | 1.4 | -- | -- | -- | -- |
| 18... | 1640 | 286 | 2.1 | -- | 6.6 | -- | 1.3 | -- | 2.4 | -- | 1.2 |
| MAY | | | | | | | | | | | |
| 23... | 1310 | 130 | -- | 9.8 | -- | 1.5 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 20... | 1045 | 92 | -- | 7.6 | -- | 1.4 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 01... | 1000 | 103 | 2.6 | 9.5 | -- | 1.4 | -- | 3.3 | -- | 1.4 | -- |
| 15... | 1835 | 28 | -- | 17 | -- | 1.8 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 19... | 1215 | 55 | -- | 11 | -- | 1.8 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | 26 | 0 | 21 | 10 | 6.0 | -- | .3 | .69 | .00 | .69 | .01 |
| NOV. | | | | | | | | | | | |
| 29... | 15 | 0 | 12 | -- | -- | -- | -- | .74 | .01 | .75 | .12 |
| DEC. | | | | | | | | | | | |
| 19... | 12 | 0 | 10 | -- | -- | -- | -- | 1.3 | .00 | 1.3 | .03 |
| JAN. | | | | | | | | | | | |
| 24... | 11 | 0 | 9 | 12 | 6.1 | -- | .1 | .94 | .00 | .94 | .09 |
| FEB. | | | | | | | | | | | |
| 27... | 10 | 0 | 8 | -- | -- | -- | -- | 1.1 | .01 | 1.1 | .11 |
| APR. | | | | | | | | | | | |
| 04... | 10 | 0 | 8 | -- | -- | -- | -- | .74 | .01 | .75 | .21 |
| 18... | 11 | 0 | 9 | 11 | 4.1 | -- | .1 | .81 | .01 | .82 | -- |
| MAY | | | | | | | | | | | |
| 23... | 19 | 0 | 16 | -- | -- | -- | -- | .70 | .01 | .71 | .03 |
| JUNE | | | | | | | | | | | |
| 20... | 19 | 0 | 16 | -- | -- | -- | -- | .67 | .01 | .68 | .07 |
| AUG. | | | | | | | | | | | |
| 01... | 17 | 0 | 14 | 12 | 4.6 | .2 | -- | .51 | .01 | .52 | .20 |
| 15... | 22 | -- | -- | -- | -- | -- | -- | .50 | .02 | .52 | .19 |
| SEP. | | | | | | | | | | | |
| 19... | 22 | 0 | 18 | -- | -- | -- | -- | .71 | .00 | .71 | .09 |

## 01427500 CALLICOON CREEK AT CALLICOON, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 17... | .18 | .19 | .88 | .02 | -- | .00 | 48 | 8 | 73 | 34 |
| NOV. | | | | | | | | | | |
| 29... | .21 | .33 | 1.1 | .05 | -- | .02 | -- | -- | 86 | 27 |
| DEC. | | | | | | | | | | |
| 19... | .22 | .25 | 1.5 | .03 | -- | .01 | -- | 29 | 71 | 26 |
| JAN. | | | | | | | | | | |
| 24... | .42 | .51 | 1.4 | .04 | -- | .01 | 41 | 13 | 34 | 25 |
| FEB. | | | | | | | | | | |
| 27... | .20 | .31 | 1.4 | .02 | -- | .01 | -- | 2 | 53 | 23 |
| APR. | | | | | | | | | | |
| 04... | .06 | .27 | 1.0 | .05 | -- | .03 | -- | 54 | 83 | 22 |
| 18... | -- | -- | -- | .03 | -- | .02 | 34 | 16 | 61 | 22 |
| MAY | | | | | | | | | | |
| 23... | .16 | .19 | .90 | .02 | .01 | -- | -- | 2 | 69 | -- |
| JUNE | | | | | | | | | | |
| 20... | .28 | .35 | 1.0 | .04 | .02 | -- | -- | 8 | 78 | -- |
| AUG. | | | | | | | | | | |
| 01... | .31 | .51 | 1.0 | .04 | .01 | -- | -- | 14 | 67 | -- |
| 15... | .03 | .22 | .74 | .02 | .02 | -- | -- | 2 | 67 | -- |
| SEP. | | | | | | | | | | |
| 19... | .12 | .21 | .92 | .02 | .01 | -- | -- | 2 | 65 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 17... | 12 | 87 | 7.2 | 6.0 | 10.2 | 91 | 3.4 | 2.8 | -- | 27 |
| NOV. | | | | | | | | | | |
| 29... | 15 | 81 | 7.1 | 6.0 | 11.2 | 91 | .7 | 1.6 | -- | B270 |
| DEC. | | | | | | | | | | |
| 19... | 16 | 98 | 6.5 | .0 | 13.5 | 94 | 1.4 | 1.9 | -- | B52 |
| JAN. | | | | | | | | | | |
| 24... | 16 | 82 | 6.2 | 2.0 | 13.8 | 99 | .6 | 1.8 | -- | B58 |
| FEB. | | | | | | | | | | |
| 27... | 15 | 80 | 6.1 | 1.0 | 13.6 | 97 | 1.0 | 3.3 | -- | 14 |
| APR. | | | | | | | | | | |
| 04... | 14 | 64 | 6.0 | 9.0 | 11.1 | 96 | .5 | 2.4 | -- | B13 |
| 18... | 13 | 67 | 7.5 | 11.0 | 11.0 | 99 | .8 | .8 | -- | B7 |
| MAY | | | | | | | | | | |
| 23... | -- | 62 | 7.5 | 18.0 | 9.8 | 103 | 1.2 | 5.0 | 12 | B156 |
| JUNE | | | | | | | | | | |
| 20... | -- | 78 | 7.5 | 20.0 | 9.6 | 104 | .8 | 1.3 | 5.0 | 136 |
| AUG. | | | | | | | | | | |
| 01... | -- | 76 | 7.4 | 18.0 | 9.8 | 103 | 2.4 | 16 | 3.2 | 120 |
| 15... | -- | 100 | 9.2 | 26.0 | 9.2 | 118 | 1.5 | .4 | 1.2 | 64 |
| SEP. | | | | | | | | | | |
| 19... | -- | 99 | 7.6 | 15.0 | 10.8 | 108 | 1.0 | 5.5 | 2.0 | 140 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.

**LOCATION.**--Lat 41°36'34", long 75°03'44", Sullivan County, N.Y.-Wayne County, Pa., at bridge on U.S. Highway 106 in Narrowsburg, 0.1 mi (0.2 km) downstream from Feagles Lake Outlet.

**DRAINAGE AREA.**--1,913 mi² (4,955 km²).

**PERIOD OF RECORD.**--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 1600 | E1350 | 1.7 | -- | 7.2 | -- | 1.8 | -- | 1.7 | -- | 1.0 |
| NOV. | | | | | | | | | | | |
| 15... | 1005 | E1610 | -- | -- | 7.0 | -- | 1.8 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 12... | 1540 | E5430 | -- | -- | 6.0 | -- | 1.1 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 18... | 1000 | E1260 | 2.7 | -- | 6.0 | -- | 1.5 | -- | 2.6 | -- | .7 |
| FEB. | | | | | | | | | | | |
| 27... | 1410 | E4580 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 04... | 1445 | E10400 | -- | -- | 5.0 | -- | 1.2 | -- | -- | -- | -- |
| 18... | 1450 | 9130 | 1.6 | -- | 5.2 | -- | 1.3 | -- | 1.6 | -- | .8 |
| MAY | | | | | | | | | | | |
| 23... | 1440 | E2650 | -- | 5.8 | -- | 1.4 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 20... | 1140 | 1140 | -- | 5.7 | -- | 1.1 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 31... | 1930 | E2040 | 1.9 | 7.9 | -- | 2.0 | -- | 2.5 | -- | 1.0 | -- |
| AUG. | | | | | | | | | | | |
| 15... | 1605 | E860 | -- | -- | -- | 1.9 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 19... | 1420 | E560 | -- | 9.1 | -- | 1.4 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 18 | 0 | 15 | 9.6 | 4.5 | -- | .3 | .45 | .00 | .46 | .00 |
| NOV. | | | | | | | | | | | |
| 15... | 19 | 0 | 16 | -- | -- | -- | -- | .34 | .00 | .34 | .12 |
| DEC. | | | | | | | | | | | |
| 12... | 8 | 0 | 7 | -- | -- | -- | -- | .49 | .00 | .49 | .11 |
| JAN. | | | | | | | | | | | |
| 18... | 11 | 0 | 9 | 9.2 | 4.5 | -- | .2 | .59 | .01 | .60 | .01 |
| FEB. | | | | | | | | | | | |
| 27... | 10 | 0 | 8 | -- | -- | -- | -- | .59 | .01 | .60 | .02 |
| APR. | | | | | | | | | | | |
| 04... | 8 | 0 | 7 | -- | -- | -- | -- | .37 | .00 | .37 | .08 |
| 18... | 10 | 0 | 8 | 9.2 | 2.7 | -- | .1 | .38 | .01 | .39 | -- |
| MAY | | | | | | | | | | | |
| 23... | 12 | 0 | 10 | -- | -- | -- | -- | .30 | .01 | .31 | .06 |
| JUNE | | | | | | | | | | | |
| 20... | 14 | 0 | 11 | -- | -- | -- | -- | .18 | .01 | .19 | .09 |
| JULY | | | | | | | | | | | |
| 31... | 14 | 0 | 11 | 11 | 3.7 | .3 | -- | .28 | .01 | .29 | .09 |
| AUG. | | | | | | | | | | | |
| 15... | 16 | -- | -- | -- | -- | -- | -- | .17 | .01 | .18 | .18 |
| SEP. | | | | | | | | | | | |
| 19... | 17 | 0 | 14 | -- | -- | -- | -- | .04 | .00 | .04 | .08 |

E Estimated value.

## 01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | .15 | .15 | .61 | .00 | -- | .00 | 37 | 0 | 42 | 25 |
| NOV. | | | | | | | | | | |
| 15... | .03 | .15 | .49 | .00 | -- | .00 | -- | 6 | 62 | 25 |
| DEC. | | | | | | | | | | |
| 12... | .08 | .19 | .68 | .01 | -- | .00 | -- | 6 | 36 | 20 |
| JAN. | | | | | | | | | | |
| 18... | .12 | .13 | .73 | .02 | -- | .00 | 33 | 13 | 63 | 21 |
| FEB. | | | | | | | | | | |
| 27... | .11 | .13 | .73 | .01 | -- | .00 | -- | 2 | 36 | -- |
| APR. | | | | | | | | | | |
| 04... | .16 | .24 | .61 | .03 | -- | .01 | -- | 15 | 67 | 17 |
| 18... | -- | -- | -- | .02 | -- | .00 | 28 | 6 | 59 | 18 |
| MAY | | | | | | | | | | |
| 23... | .13 | .19 | .50 | .02 | .00 | -- | -- | 4 | 59 | -- |
| JUNE | | | | | | | | | | |
| 20... | .18 | .27 | .46 | .01 | .00 | -- | -- | 0 | 48 | -- |
| JULY | | | | | | | | | | |
| 31... | .13 | .22 | .51 | .02 | .01 | -- | -- | 9 | 53 | -- |
| AUG. | | | | | | | | | | |
| 15... | .06 | .24 | .42 | .01 | .01 | -- | -- | 1 | 46 | -- |
| SEP. | | | | | | | | | | |
| 19... | .13 | .21 | .25 | .02 | .01 | -- | -- | 2 | 45 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 11 | 75 | 6.9 | 11.0 | 10.2 | 93 | 2.7 | 2.0 | -- | 87 |
| NOV. | | | | | | | | | | |
| 15... | 9 | 73 | 6.3 | 9.0 | 11.0 | 96 | 4.5 | .5 | -- | 15 |
| DEC. | | | | | | | | | | |
| 12... | 13 | 55 | 6.9 | 3.0 | 12.6 | 95 | 1.6 | 1.0 | -- | 66 |
| JAN. | | | | | | | | | | |
| 18... | 12 | 68 | 6.2 | .0 | -- | -- | -- | 7.7 | -- | 89 |
| FEB. | | | | | | | | | | |
| 27... | -- | 65 | 6.1 | 2.0 | 15.1 | 110 | 1.3 | 2.6 | -- | 81 |
| APR. | | | | | | | | | | |
| 04... | 11 | 52 | 6.2 | 9.0 | 12.0 | 104 | 2.0 | 7.3 | -- | 39 |
| 18... | 10 | 55 | 7.7 | 9.0 | 11.9 | 102 | .0 | 10 | -- | 82 |
| MAY | | | | | | | | | | |
| 23... | -- | 52 | 7.4 | 19.0 | 10.0 | 108 | 1.6 | .7 | 9.0 | 18 |
| JUNE | | | | | | | | | | |
| 20... | -- | 53 | 7.5 | 22.0 | 9.0 | 100 | 1.1 | 2.1 | 4.0 | B16 |
| JULY | | | | | | | | | | |
| 31... | -- | 68 | 7.3 | 24.0 | 9.2 | 108 | 1.4 | 4.0 | 3.0 | B80 |
| AUG. | | | | | | | | | | |
| 15... | -- | 73 | 8.5 | 25.0 | 9.0 | 107 | 1.0 | .5 | 1.0 | B16 |
| SEP. | | | | | | | | | | |
| 19... | -- | 75 | 7.4 | 19.0 | 9.2 | 100 | .8 | 2.8 | 3.0 | 25 |

B Results based on colony count outside the
acceptable range (non-ideal colony count).

## 01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, temperature recorder at gaging station 1.6 mi (2.6 km) upstream from Lackawaxen River and 4.6 mi (7.4 km) northwest of Barryville.

DRAINAGE AREA.--2,023 mi² (5,240 km²).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.5°C July 9.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature records available for Nov. 8 to May 29.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 17.0 | 15.0 | 10.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 15.5 | 14.5 | 10.5 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 16.5 | 15.0 | 10.0 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 17.0 | 15.0 | 8.5 | 6.5 | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 18.0 | 16.0 | 7.0 | 6.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 17.0 | 15.0 | 6.0 | 4.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 15.5 | 14.0 | 5.0 | 4.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 15.0 | 13.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 15.5 | 14.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 17.0 | 15.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 15.5 | 14.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 15.5 | 13.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 15.0 | 14.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 15.0 | 13.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 14.0 | 11.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | 13.0 | 11.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 11.0 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | 9.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 9.5 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 9.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 11.0 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 11.0 | 9.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | 11.5 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | 11.5 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | 11.5 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | 11.5 | 9.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | 11.5 | 10.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | 10.0 | 9.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 9.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 9.5 | 9.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 10.5 | 8.5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | --- | --- | --- | --- | 18.0 | 16.5 | 23.0 | 20.0 | 24.0 | 20.5 | 21.0 | 19.0 |
| 2 | --- | --- | --- | --- | 16.5 | 16.0 | 24.5 | 20.5 | 24.5 | 21.0 | 20.5 | 18.5 |
| 3 | --- | --- | --- | --- | 17.0 | 15.0 | 25.5 | 23.0 | 25.0 | 22.0 | 18.5 | 17.0 |
| 4 | --- | --- | --- | --- | 19.5 | 16.5 | 26.5 | 23.5 | 24.5 | 23.0 | 17.0 | 15.5 |
| 5 | --- | --- | --- | --- | 21.0 | 18.5 | 26.0 | 24.5 | 24.5 | 21.5 | 16.5 | 14.5 |
| 6 | --- | --- | --- | --- | 23.0 | 19.0 | 27.0 | 24.0 | 24.5 | 21.5 | 16.0 | 15.5 |
| 7 | --- | --- | --- | --- | 21.5 | 19.5 | 28.0 | 23.5 | 24.5 | 21.0 | 18.0 | 15.0 |
| 8 | --- | --- | --- | --- | 22.0 | 19.5 | 28.5 | 24.5 | 25.0 | 21.5 | 19.0 | 16.0 |
| 9 | --- | --- | --- | --- | 24.0 | 20.0 | 29.5 | 25.0 | 24.0 | 23.0 | 19.0 | 17.0 |
| 10 | --- | --- | --- | --- | 26.5 | 22.0 | 28.5 | 25.5 | 25.5 | 22.0 | 20.5 | 18.0 |
| 11 | --- | --- | --- | --- | 26.0 | 24.0 | 26.5 | 24.0 | 25.0 | 21.5 | 21.0 | 18.5 |
| 12 | --- | --- | --- | --- | 24.0 | 22.0 | 26.0 | 22.0 | 24.5 | 20.5 | 23.0 | 19.5 |
| 13 | --- | --- | --- | --- | 24.0 | 19.5 | 25.5 | 21.5 | 25.0 | 21.5 | 24.0 | 20.5 |
| 14 | --- | --- | --- | --- | 22.0 | 20.0 | 25.5 | 21.5 | 26.5 | 23.0 | 23.0 | 19.5 |
| 15 | --- | --- | --- | --- | 22.0 | 19.5 | 25.5 | 23.0 | 26.0 | 22.0 | 21.0 | 18.0 |
| 16 | --- | --- | --- | --- | 20.5 | 19.0 | 25.0 | 22.0 | 26.0 | 22.0 | 19.5 | 17.0 |
| 17 | --- | --- | --- | --- | 21.0 | 18.5 | 25.5 | 20.5 | 24.5 | 21.0 | 19.5 | 16.5 |
| 18 | --- | --- | --- | --- | 21.0 | 19.0 | 24.5 | 21.5 | 21.5 | 20.0 | 19.5 | 17.0 |
| 19 | --- | --- | --- | --- | 21.5 | 19.0 | 25.5 | 22.0 | 22.0 | 18.5 | 19.0 | 16.5 |
| 20 | --- | --- | --- | --- | 23.5 | 20.0 | 23.5 | 21.0 | 24.0 | 19.5 | 19.5 | 17.0 |
| 21 | --- | --- | --- | --- | 23.0 | 21.0 | 23.5 | 19.5 | 25.0 | 21.0 | 19.0 | 17.0 |
| 22 | --- | --- | --- | --- | 23.5 | 20.5 | 23.5 | 19.5 | 24.0 | 21.5 | 18.0 | 15.5 |
| 23 | --- | --- | --- | --- | 22.0 | 20.0 | 22.0 | 20.0 | 25.0 | 22.0 | 16.0 | 13.5 |
| 24 | --- | --- | --- | --- | 21.0 | 18.5 | 20.5 | 18.0 | 24.5 | 23.0 | 14.5 | 11.0 |
| 25 | --- | --- | --- | --- | 20.0 | 18.5 | 18.0 | 16.5 | 24.0 | 21.0 | 13.0 | 11.0 |
| 26 | --- | --- | --- | --- | 19.0 | 18.0 | 17.0 | 15.5 | 21.0 | 20.0 | 13.5 | 11.0 |
| 27 | --- | --- | --- | --- | 20.0 | 17.0 | 20.0 | 16.5 | 23.0 | 20.0 | 15.0 | 11.5 |
| 28 | --- | --- | --- | --- | 19.5 | 18.5 | 21.0 | 18.5 | 22.0 | 20.5 | 14.5 | 13.5 |
| 29 | --- | --- | --- | --- | 21.0 | 18.5 | 22.0 | 19.5 | 21.5 | 20.0 | 15.0 | 14.5 |
| 30 | --- | --- | 18.0 | 14.5 | 22.0 | 19.0 | 22.0 | 20.5 | 21.0 | 19.5 | 14.5 | 13.5 |
| 31 | --- | --- | 18.5 | 16.5 | --- | --- | 22.0 | 20.0 | 20.5 | 19.0 | --- | --- |

## 01431500 LACKAWAXEN RIVER AT HAWLEY, PA.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, at gaging station at bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 0800 | 99 | 1.5 | -- | 12 | -- | 1.7 | -- | 2.2 | -- | 1.4 |
| NOV. | | | | | | | | | | | |
| 14... | 1705 | 123 | -- | -- | 10 | -- | 1.5 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 12... | 0610 | 1330 | -- | -- | 9.0 | -- | 1.1 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 17... | 0745 | E320 | 3.7 | -- | 9.0 | -- | 1.2 | -- | 3.0 | -- | .8 |
| FEB. | | | | | | | | | | | |
| 21... | 1545 | E260 | -- | -- | 9.4 | -- | 1.0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 21... | 1315 | 842 | -- | -- | 7.7 | -- | 1.0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 04... | 1125 | 3820 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | 0900 | 1020 | 2.1 | -- | 7.0 | -- | 1.0 | -- | 1.5 | -- | 1.0 |
| MAY | | | | | | | | | | | |
| 16... | 1145 | 958 | -- | 8.5 | -- | 1.0 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 13... | 1315 | 143 | -- | 11 | -- | 1.3 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 18... | 1205 | 82 | 1.9 | 11 | -- | 1.3 | -- | 3.3 | -- | 1.1 | -- |
| AUG. | | | | | | | | | | | |
| 14... | 1815 | 77 | -- | 10 | -- | 1.4 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 10... | 1315 | 224 | -- | 9.9 | -- | 1.6 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 31 | 0 | 25 | [illegible] | 5.5 | -- | .4 | .15 | .00 | .15 |
| NOV. | | | | | | | | | | |
| 14... | 24 | 0 | 20 | -- | -- | -- | -- | .27 | .00 | .28 |
| DEC. | | | | | | | | | | |
| 12... | 13 | 0 | 11 | -- | -- | -- | -- | .40 | .00 | .40 |
| JAN. | | | | | | | | | | |
| 17... | 16 | 0 | 13 | 11 | 5.6 | -- | .1 | .51 | .05 | .56 |
| FEB. | | | | | | | | | | |
| 21... | 16 | 0 | 13 | -- | -- | -- | -- | .56 | .01 | .57 |
| MAR. | | | | | | | | | | |
| 21... | 12 | 0 | 10 | -- | -- | -- | -- | .38 | .01 | .39 |
| APR. | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | 14 | 0 | 11 | 11 | 2.7 | -- | .1 | .26 | .01 | .27 |
| MAY | | | | | | | | | | |
| 16... | 15 | 0 | 12 | -- | -- | -- | -- | .14 | .01 | .15 |
| JUNE | | | | | | | | | | |
| 13... | [illegible] | -- | -- | -- | -- | -- | -- | .26 | .01 | .27 |
| JULY | | | | | | | | | | |
| 18... | 26 | 0 | 21 | 12 | 4.7 | .1 | -- | .08 | .01 | .09 |
| AUG. | | | | | | | | | | |
| 14... | 26 | -- | -- | -- | -- | -- | -- | .01 | .01 | .02 |
| SEP. | | | | | | | | | | |
| 10... | 7 | 0 | 6 | -- | -- | -- | -- | .13 | .00 | .13 |

E Estimated value.

CONTINUED NEXT PAGE

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | .02 | .23 | .25 | .40 | .04 | -- | .03 | 51 | 0 | 57 |
| NOV. | | | | | | | | | | |
| 14... | .11 | .05 | .16 | .44 | .05 | -- | .03 | -- | 4 | 73 |
| DEC. | | | | | | | | | | |
| 12... | .14 | .04 | .18 | .58 | .04 | -- | .01 | -- | 7 | 56 |
| JAN. | | | | | | | | | | |
| 17... | .07 | .17 | .24 | .80 | .04 | -- | .02 | 42 | 2 | 65 |
| FEB. | | | | | | | | | | |
| 21... | .06 | .17 | .23 | .80 | .03 | -- | .02 | -- | 9 | 60 |
| MAR. | | | | | | | | | | |
| 21... | .23 | .04 | .27 | .66 | .07 | -- | .04 | -- | 17 | 97 |
| APR. | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | -- | -- | -- | -- | .03 | -- | .01 | 33 | 13 | -- |
| MAY | | | | | | | | | | |
| 16... | .04 | .16 | .20 | .35 | .04 | .01 | -- | -- | 8 | 58 |
| JUNE | | | | | | | | | | |
| 13... | .05 | .24 | .29 | .56 | .06 | .05 | -- | -- | 0 | 50 |
| JULY | | | | | | | | | | |
| 18... | .22 | .04 | .26 | .35 | .06 | .05 | -- | -- | 2 | 60 |
| AUG. | | | | | | | | | | |
| 14... | .27 | .11 | .38 | .40 | .10 | .08 | -- | -- | 1 | 74 |
| SEP. | | | | | | | | | | |
| 10... | .18 | .14 | .32 | .45 | .05 | .02 | -- | -- | 4 | 50 |

| DATE | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 37 | 12 | 102 | 6.9 | 12.0 | 8.4 | 77 | 1.5 | -- | 23 |
| NOV. | | | | | | | | | | |
| 14... | 31 | 11 | 102 | 7.0 | 10.0 | 11.4 | 102 | 3.1 | -- | 10 |
| DEC. | | | | | | | | | | |
| 12... | 27 | 16 | 70 | 6.8 | 2.0 | 12.7 | 92 | 1.3 | -- | B600 |
| JAN. | | | | | | | | | | |
| 17... | 27 | 14 | 88 | 5.9 | .0 | 12.4 | 86 | -- | -- | B440 |
| FEB. | | | | | | | | | | |
| 21... | 28 | 14 | 90 | 6.5 | 3.0 | 12.0 | 90 | 2.7 | -- | 84 |
| MAR. | | | | | | | | | | |
| 21... | 23 | 14 | 62 | 6.3 | 3.0 | 12.8 | 96 | 1.6 | -- | 180 |
| APR. | | | | | | | | | | |
| 04... | -- | -- | 60 | -- | 6.0 | -- | -- | 1.6 | -- | -- |
| 18... | 22 | 10 | 60 | 6.4 | 9.0 | 10.8 | 93 | .0 | .0 | 120 |
| MAY | | | | | | | | | | |
| 16... | -- | -- | 58 | 6.4 | 18.0 | 9.4 | 99 | .1 | -- | 210 |
| JUNE | | | | | | | | | | |
| 13... | -- | -- | 90 | 8.5 | 22.0 | 10.4 | 118 | .2 | -- | 29 |
| JULY | | | | | | | | | | |
| 18... | -- | -- | 98 | 8.2 | 23.0 | 10.1 | 116 | 2.0 | -- | 14 |
| AUG. | | | | | | | | | | |
| 14... | -- | -- | 102 | 9.4 | 26.0 | 10.2 | 124 | 1.0 | -- | 812 |
| SEP. | | | | | | | | | | |
| 10... | -- | -- | 84 | 7.1 | 19.0 | 9.6 | 103 | 1.7 | -- | 90 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01431500 LACKAWAXEN RIVER AT HAWLEY, PA.--Continued

## PHYTOPLANKTON ANALYSES, JUNE 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|---|---|---|---|
| June 20 1973 | 280 | *Cymbella* | 30 | July 24 1973 | 1,400 | *Scenedesmus* spp. | 40 |
| Aug. 21 1973 | 590 | *Anabaena* sp. | 38 | Sept. 17 1973 | 2,100 | *Pseudoparachymatous mass | 73 |
| | | *Navicula* sp. | 23 | | | | |
| Oct. 16 1973 | 6,400 | *Pseudoparachymatous mass | 94 | Nov. 14 1973 | 290 | *Melosira* | 36 |
| | | | | | | *Navicula* | 16 |
| | | | | | | *Nitzschia* | 15 |
| Dec. 12 1973 | 270 | *Dinobryon* sp. | 18 | Jan. 17 1974 | .190 | *Achnanthes* | 38 |
| | | *Navicula* sp. | 18 | | | *Navicula* | 25 |
| | | *Asterionella formosa* | 17 | | | | |
| Feb. 21 1974 | 520 | *Fragilaria* | 46 | Mar. 21 1974 | 860 | *Fragilaria* | 33 |
| | | | | | | Naviculaceae | 15 |
| | | | | | | *Cymbella* | 15 |
| Apr. 18 1974 | 460 | *Gomphonema* | 21.7 | May 16 1974 | 1,900 | *Navicula* | 26 |
| | | *Cymbella* | 17.4 | | | *Cymbella* | 14 |
| | | *Navicula* | 17.4 | | | *Scenedesmus* | 14 |
| | | *Achnanthes* | 13.0 | | | *Cyclotella* | 12 |
| | | *Fragilaria* | 13.0 | | | *Synedra* | 6 |
| | | *Dinobryon* | 8.7 | | | *Nitzschia* | 5 |
| | | *Synedra* | 4.3 | | | *Terpsinoe* | 4 |
| | | *Euglena* | 4.3 | | | *Anacystis* | 3 |
| | | | | | | *Achnanthes* | 3 |
| | | | | | | *Meridion* | 3 |
| | | | | | | *Tabellaria* | 3 |
| | | | | | | *Ankistrodesmus* | 2 |
| | | | | | | *Gomphonema* | 1 |
| | | | | | | *Melosira* | 1 |
| | | | | | | *Rhoiocosphenia* | 1 |
| | | | | | | *Chodatella* | 1 |
| June 13 1974 | 3,100 | *Actinastrum* | 27 | July 18 1974 | 2,500 | *Coelastrum* | 28 |
| | | *Scenedesmus* | 14 | | | *Scenedesmus* | 15 |
| | | *Navicula* | 12 | | | *Navicula* | 14 |
| | | *Cyclotella* | 12 | | | *Pediastrum* | 12 |
| | | *Protococcus* | 11 | | | *Nitzschia* | 8 |
| | | *Achnanthes* | 6 | | | *Cyclotella* | 7 |
| | | *Tetrastrum* | 5 | | | *Achnanthes* | 6 |
| | | *Cymbella* | 4 | | | *Gomphonema* | 3 |
| | | *Ankistrodesmus* | 3 | | | *Cymbella* | 2 |
| | | *Tetraedron* | 2 | | | *Cocconeis* | 2 |
| | | *Kirchneriella* | 2 | | | *Kirchneriella* | 1 |
| | | *Tabellaria* | 1 | | | *Synedra* | 1 |
| | | *Cosmarium* | 1 | | | *Closterium* | 1 |
| | | | | | | *Selenastrum* | 1 |
| | | | | | | *Ankistrodesmus* | 1 |
| Aug. 14 1974 | 3,600 | *Scenedesmus* | 26 | Sept. 10 1974 | 4,000 | *Gomphosphaeria* | 56 |
| | | *Agmenellum* | 19 | | | *Aphanizomenon* | 12 |
| | | *Anabaena* | 15 | | | *Anacystis* | 11 |
| | | *Coelastrum* | 13 | | | *Scenedesmus* | 5 |
| | | *Oscillatoria* | 9 | | | *Nitzschia* | 3 |
| | | *Navicula* | 6 | | | *Navicula* | 3 |
| | | *Anacystis* | 3 | | | *Achnanthes* | 2 |
| | | *Nitzschia* | 2 | | | *Asterionella* | 2 |
| | | *Cocconeis* | 2 | | | *Cyclotella* | 2 |
| | | *Achnanthes* | 2 | | | *Crucigenia* | 2 |
| | | *Ankistrodesmus* | 2 | | | *Oocystis* | 2 |
| | | *Cosmarium* | 1 | | | *Cymbella* | <1 |
| | | *Kirchneriella* | 1 | | | *Gomphonema* | <1 |
| | | | | | | *Trachelomonas* | <1 |
| | | | | | | *Ankistrodesmus* | <1 |

*Possible palmella or juvenile stage of *Ulotrichales*.

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## 01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.

LOCATION.--Lat 41°22'04", long 75°19'10", Pike County, at roadside park 0.9 mi (1.4 km) southeast of Ledgedale and 2.6 mi (4.2 km) downstream from the confluence of East and West Branches.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--Chemical analyses: June 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 15... | 1700 | E52 | 2.0 | -- | 9.2 | -- | 1.4 | -- | 2.0 | -- | .8 |
| NOV. | | | | | | | | | | | |
| 14... | 1505 | E98 | -- | -- | 8.0 | -- | 1.2 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 11... | 1600 | E796 | -- | -- | 7.0 | -- | .9 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 17... | 0950 | E296 | 3.3 | -- | 7.4 | -- | 1.1 | -- | 2.1 | -- | .5 |
| FEB. | | | | | | | | | | | |
| 21... | 1315 | E229 | -- | -- | 7.7 | -- | .7 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 21... | 1130 | E380 | -- | -- | 7.4 | -- | 1.1 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 04... | 1000 | E1200 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | 1810 | E530 | 1.9 | -- | 6.3 | -- | .9 | -- | 1.5 | -- | .6 |
| MAY | | | | | | | | | | | |
| 16... | 0900 | E480 | -- | 29 | -- | 1.0 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 13... | 1345 | 84 | -- | 21 | -- | 1.3 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 18... | 0950 | 47 | 1.4 | 8.6 | -- | 1.0 | -- | 2.4 | -- | .7 | -- |
| AUG. | | | | | | | | | | | |
| 15... | 0945 | 49 | -- | 7.2 | -- | 1.3 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 10... | 1115 | 230 | -- | 10 | -- | 1.2 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 15... | 24 | 0 | 20 | 9.0 | 4.1 | -- | .3 | .03 | .00 | .03 | .05 |
| NOV. | | | | | | | | | | | |
| 14... | 18 | 0 | 15 | -- | -- | -- | -- | .18 | .00 | .18 | .05 |
| DEC. | | | | | | | | | | | |
| 11... | 7 | 0 | 6 | -- | -- | -- | -- | .33 | .00 | .33 | .14 |
| JAN. | | | | | | | | | | | |
| 17... | 11 | 0 | 9 | 11 | 4.3 | -- | .3 | .38 | .01 | .39 | .06 |
| FEB. | | | | | | | | | | | |
| 21... | 11 | 0 | 9 | -- | -- | -- | -- | .47 | .00 | .47 | .07 |
| MAR. | | | | | | | | | | | |
| 21... | 11 | 0 | 9 | -- | -- | -- | -- | .33 | .00 | .33 | .10 |
| APR. | | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | 10 | 0 | 8 | 11 | 3.[illegible] | -- | .1 | .23 | .01 | .24 | -- |
| MAY | | | | | | | | | | | |
| 16... | 10 | 0 | 8 | -- | -- | -- | -- | .15 | .01 | .16 | .04 |
| JUNE | | | | | | | | | | | |
| 13... | 15 | 0 | 12 | -- | -- | -- | -- | .18 | .01 | .19 | .07 |
| JULY | | | | | | | | | | | |
| 18... | 14 | 0 | 11 | 11 | 4.0 | .1 | -- | .03 | .01 | .04 | .15 |
| AUG. | | | | | | | | | | | |
| 15... | 14 | 0 | 11 | -- | -- | -- | -- | .00 | .01 | .01 | .14 |
| SEP. | | | | | | | | | | | |
| 10... | 8 | 0 | 7 | -- | -- | -- | -- | .01 | .00 | .01 | .16 |

E Estimated value.

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 15... | .14 | .19 | .22 | .02 | -- | .00 | 41 | 8 | 59 | 29 |
| NOV. | | | | | | | | | | |
| 14... | .06 | .11 | .29 | .00 | -- | .00 | -- | 6 | 61 | 25 |
| DEC. | | | | | | | | | | |
| 11... | .03 | .17 | .50 | .02 | -- | .00 | -- | 8 | 49 | 21 |
| JAN. | | | | | | | | | | |
| 17... | .05 | .11 | .50 | .01 | -- | .00 | 35 | 2 | 55 | 23 |
| FEB. | | | | | | | | | | |
| 21... | .18 | .25 | .72 | .01 | -- | .01 | -- | 6 | 58 | 22 |
| MAR. | | | | | | | | | | |
| 21... | .00 | .10 | .43 | .01 | -- | .01 | -- | 18 | 54 | 23 |
| APR. | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17... | -- | -- | -- | .01 | -- | .01 | 30 | 3 | 46 | 19 |
| MAY | | | | | | | | | | |
| 16... | .14 | .18 | .34 | .02 | .01 | -- | -- | 4 | 45 | -- |
| JUNE | | | | | | | | | | |
| 13... | .24 | .31 | .50 | .01 | .00 | -- | -- | 0 | 47 | -- |
| JULY | | | | | | | | | | |
| 18... | .15 | .30 | .34 | .01 | .01 | -- | -- | 2 | 48 | -- |
| AUG. | | | | | | | | | | |
| 15... | .11 | .25 | .26 | .01 | .01 | -- | -- | 2 | 57 | -- |
| SEP. | | | | | | | | | | |
| 10... | .23 | .39 | .40 | .02 | .01 | -- | -- | 1 | 36 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 15... | 9 | 85 | 7.2 | 15.0 | 9.4 | 94 | -- | 2.1 | -- | B2 |
| NOV. | | | | | | | | | | |
| 14... | 10 | 74 | 7.0 | 7.0 | 12.0 | 100 | 1.7 | .3 | -- | B2 |
| DEC. | | | | | | | | | | |
| 11... | 15 | 59 | 6.6 | 3.0 | 12.5 | 94 | 3.5 | .0 | -- | B76 |
| JAN. | | | | | | | | | | |
| 17... | 14 | 71 | 6.2 | .0 | 14.2 | 98 | -- | 2.2 | -- | 10 |
| FEB. | | | | | | | | | | |
| 21... | 13 | 71 | 6.6 | .0 | 12.5 | 87 | 1.2 | 3.9 | -- | 13 |
| MAR. | | | | | | | | | | |
| 21... | 14 | 64 | 6.3 | 3.0 | 9.2 | 92 | 9.7 | 2.3 | -- | B10 |
| APR. | | | | | | | | | | |
| 04... | -- | 56 | -- | 5.0 | -- | -- | .0 | -- | -- | -- |
| 17... | 11 | 53 | 6.3 | 8.0 | 11.5 | 96 | .0 | .0 | -- | B3 |
| MAY | | | | | | | | | | |
| 16... | -- | 52 | 6.1 | 17.0 | 9.3 | 96 | 1.1 | .4 | .5 | 35 |
| JUNE | | | | | | | | | | |
| 13... | -- | 72 | 7.5 | 20.0 | 8.8 | 96 | .8 | .4 | 1.4 | <1 |
| JULY | | | | | | | | | | |
| 18... | -- | 73 | 7.2 | 24.0 | 9.0 | 106 | 1.6 | 6.4 | 12 | 140 |
| AUG. | | | | | | | | | | |
| 15... | -- | 67 | 7.1 | 22.0 | 8.7 | 99 | 2.0 | 3.2 | 5.2 | B7 |
| SEP. | | | | | | | | | | |
| 10... | -- | 65 | 7.1 | 21.0 | 9.9 | 110 | 2.3 | 11 | .0 | 14 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.

LOCATION.--Lat 41°29'12", long 74°59'31", Pike County, at highway bridge in Lackawaxen, 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--597 mi² (1,546 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1200 | 151 | 1.4 | -- | 9.0 | -- | 1.5 | -- | 2.0 | -- | 1.0 |
| NOV. 15... | 0800 | 206 | -- | -- | 8.0 | -- | 1.4 | -- | -- | -- | -- |
| DEC. 12... | 1205 | 1540 | -- | -- | 7.5 | -- | 1.1 | -- | -- | -- | -- |
| JAN. 24... | 1245 | 3420 | 2.8 | -- | 7.0 | -- | 1.0 | -- | 2.3 | -- | .9 |
| FEB. 21... | 1710 | 2010 | -- | -- | 6.6 | -- | 1.0 | -- | -- | -- | -- |
| MAR. 21... | 1510 | 3270 | -- | -- | 6.0 | -- | .9 | -- | -- | -- | -- |
| APR. 04... | 1205 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | 1100 | 3500 | 2.2 | -- | 6.1 | -- | 1.0 | -- | 1.6 | -- | .8 |
| MAY 16... | 1345 | 1200 | -- | 12 | -- | 1.1 | -- | -- | -- | -- | -- |
| JUNE 13... | 1710 | 270 | -- | 8.7 | -- | 1.2 | -- | -- | -- | -- | -- |
| 20... | 0900 | E290 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY 18... | 1440 | 200 | 2.3 | 7.4 | -- | 1.3 | -- | 3.0 | -- | .9 | -- |
| 29... | 1825 | -- | -- | -- | 14 | -- | .0 | -- | -- | -- | -- |
| AUG. 15... | 1230 | 190 | -- | 7.9 | -- | 1.1 | -- | -- | -- | -- | -- |
| SEP. 10... | 1430 | 2100 | -- | 7.5 | -- | 1.3 | -- | -- | -- | -- | -- |
| 30... | 1630 | -- | -- | -- | 5.5 | -- | 2.5 | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 23 | 0 | 19 | 9.5 | 4.5 | -- | .5 | .07 | .00 | .07 | .01 |
| NOV. 15... | 19 | 0 | 16 | -- | -- | -- | -- | .11 | .00 | .12 | .08 |
| DEC. 12... | 11 | 0 | 9 | -- | -- | -- | -- | .29 | .00 | .29 | .12 |
| JAN. 24... | 10 | 0 | 8 | 10 | 3.9 | -- | .0 | .26 | .00 | .26 | .07 |
| FEB. 21... | 10 | 0 | 8 | -- | -- | -- | -- | .27 | .00 | .27 | .07 |
| MAR. 21... | 11 | 0 | 9 | -- | -- | -- | -- | .24 | .00 | .24 | .10 |
| APR. 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | 11 | 0 | 9 | 11 | 3.1 | -- | .1 | .18 | .00 | .18 | -- |
| MAY 16... | 12 | 0 | 10 | -- | -- | -- | -- | .13 | .01 | .14 | .04 |
| JUNE 13... | 15 | -- | -- | -- | -- | -- | -- | .12 | .00 | .12 | .04 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY 18... | 20 | 0 | 16 | 11 | 4.2 | .1 | -- | .05 | .01 | .06 | .14 |
| 29... | -- | -- | 26 | 3.0 | 5.0 | -- | -- | .40 | .02 | -- | .07 |
| AUG. 15... | 12 | 0 | 10 | -- | -- | -- | -- | .06 | .01 | .07 | .15 |
| SEP. 10... | 17 | 0 | 14 | -- | -- | -- | -- | .05 | .00 | .05 | .17 |
| 30... | -- | -- | 13 | 6.0 | 3.0 | -- | -- | .54 | .01 | -- | .06 |

E Estimated value.

### 01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | .16 | .17 | .24 | .01 | -- | .00 | 41 | 0 | 55 | 29 |
| NOV. | | | | | | | | | | |
| 15... | .11 | .19 | .31 | .01 | -- | .01 | -- | 6 | 66 | 26 |
| DEC. | | | | | | | | | | |
| 12... | .08 | .12 | .41 | .03 | -- | .01 | -- | 7 | 53 | 23 |
| JAN. | | | | | | | | | | |
| 24... | .46 | .53 | .79 | .02 | -- | .00 | 33 | 13 | 28 | 22 |
| FEB. | | | | | | | | | | |
| 21... | .09 | .16 | .43 | .01 | -- | .00 | -- | 4 | 46 | 21 |
| MAR. | | | | | | | | | | |
| 21... | .10 | .20 | .44 | .02 | -- | .01 | -- | 7 | 45 | 19 |
| APR. | | | | | | | | | | |
| 04... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18... | -- | -- | -- | .02 | -- | .01 | 31 | 14 | 62 | 19 |
| MAY | | | | | | | | | | |
| 16... | .11 | .15 | .29 | .04 | .01 | -- | -- | 4 | 51 | -- |
| JUNE | | | | | | | | | | |
| 13... | .25 | .29 | .41 | .03 | .02 | -- | -- | 1 | 50 | -- |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 18... | .09 | .23 | .29 | .02 | .02 | -- | -- | 2 | 52 | -- |
| 29... | -- | -- | -- | .09 | -- | -- | -- | -- | -- | 36 |
| AUG. | | | | | | | | | | |
| 15... | .07 | .22 | .29 | .02 | .01 | -- | -- | 1 | 47 | -- |
| SEP. | | | | | | | | | | |
| 10... | .13 | .30 | .35 | .03 | .01 | -- | -- | 3 | 33 | -- |
| 30... | -- | -- | -- | .06 | -- | -- | -- | -- | -- | 24 |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 10 | 79 | 7.1 | 12.0 | 9.8 | 91 | 2.8 | 4.1 | -- | B4 |
| NOV. | | | | | | | | | | |
| 15... | 10 | 76 | 7.1 | 8.0 | 11.1 | 95 | 5.1 | .9 | -- | B3 |
| DEC. | | | | | | | | | | |
| 12... | 14 | 62 | 6.8 | 3.0 | 12.7 | 96 | 2.5 | 1.1 | -- | B190 |
| JAN. | | | | | | | | | | |
| 24... | 13 | 64 | 6.8 | 1.0 | 19.1 | 99 | .7 | 5.7 | -- | B82 |
| FEB. | | | | | | | | | | |
| 21... | 12 | 60 | 6.9 | 1.0 | 12.4 | 95 | 2.9 | 4.3 | -- | <1 |
| MAR. | | | | | | | | | | |
| 21... | 10 | 57 | 6.7 | 3.0 | 11.8 | 89 | 2.4 | 5.7 | -- | B40 |
| APR. | | | | | | | | | | |
| 04... | -- | 51 | -- | 7.0 | -- | -- | 2.4 | -- | -- | -- |
| 18... | 10 | 56 | 6.4 | 9.0 | 12.0 | 103 | .0 | .8 | -- | 65 |
| MAY | | | | | | | | | | |
| 16... | -- | 54 | 6.4 | 18.0 | 10.3 | 108 | 1.1 | 3.0 | 5.0 | 48 |
| JUNE | | | | | | | | | | |
| 13... | -- | 86 | 8.6 | 23.0 | 9.1 | 88 | .9 | 1.4 | 3.0 | B19 |
| 20... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 18... | -- | 86 | 7.4 | 24.0 | 8.3 | 95 | .7 | 3.2 | 4.0 | 20 |
| 29... | -- | 93 | 7.8 | 22.0 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 15... | -- | 66 | 7.0 | 22.0 | 9.4 | 107 | .8 | 2.0 | 1.2 | B7 |
| SEP. | | | | | | | | | | |
| 10... | -- | 65 | 7.4 | 20.0 | 8.5 | 92 | 1.5 | 3.6 | .8 | B8 |
| 30... | -- | 190 | 6.7 | 11.0 | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook and 1,000 ft (305 m) upstream of Shohola Brook.

DRAINAGE AREA.--2,692 mi² (6,972 km²).

PERIOD OF RECORD.--Chemical quality: October 1957 to September 1958, May 1973 to September 1974.
Water temperatures: October 1967 to September 1973.(discontinued).

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 1410 | E1820 | 1.5 | -- | 7.2 | -- | 1.8 | -- | 2.0 | -- | 1.0 |
| NOV. | | | | | | | | | | | |
| 15... | 1345 | E2080 | -- | -- | 7.0 | -- | 1.7 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 12... | 1405 | E7760 | -- | -- | 6.5 | -- | 1.1 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 17... | 1530 | E4280 | 2.6 | -- | 6.1 | -- | 1.2 | -- | 2.4 | -- | .7 |
| FEB. | | | | | | | | | | | |
| 20... | 1415 | E3820 | -- | -- | 6.2 | -- | 1.2 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 21... | 1600 | E7300 | -- | -- | 6.0 | -- | 1.1 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 18... | 1300 | E11800 | 1.9 | -- | 5.9 | -- | 1.2 | -- | 1.6 | -- | .8 |
| MAY | | | | | | | | | | | |
| 16... | 1535 | E8670 | -- | 5.9 | -- | 1.2 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 12... | 0830 | 1360 | -- | 10 | -- | 1.7 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 18... | 1550 | E1430 | 1.8 | 6.1 | -- | 1.6 | -- | 2.9 | -- | .8 | -- |
| AUG. | | | | | | | | | | | |
| 15... | 1200 | 1200 | -- | 7.8 | -- | 1.6 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 10... | 1530 | E3030 | -- | 13 | -- | 1.8 | -- | -- | -- | -- | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 18 | 0 | 15 | 9.5 | 4.4 | -- | .3 | .39 | .00 | .39 | .02 |
| NOV. | | | | | | | | | | | |
| 15... | 19 | 0 | 16 | -- | -- | -- | -- | .28 | .00 | .28 | .08 |
| DEC. | | | | | | | | | | | |
| 12... | 9 | 0 | 7 | -- | -- | -- | -- | .39 | .00 | .39 | .13 |
| JAN. | | | | | | | | | | | |
| 17... | 11 | 0 | 9 | 10 | 4.3 | -- | .1 | .36 | .01 | .37 | .04 |
| FEB. | | | | | | | | | | | |
| 20... | 10 | 0 | 8 | -- | -- | -- | -- | .38 | .00 | .38 | .03 |
| MAR. | | | | | | | | | | | |
| 21... | 10 | 0 | 8 | -- | -- | -- | -- | .28 | .00 | .28 | .08 |
| APR. | | | | | | | | | | | |
| 18... | 10 | 0 | 8 | 9.8 | 3.8 | -- | .1 | .28 | .01 | .29 | -- |
| MAY | | | | | | | | | | | |
| 16... | 11 | 0 | 9 | -- | -- | -- | -- | .25 | .01 | .26 | .04 |
| JUNE | | | | | | | | | | | |
| 12... | 13 | 0 | 11 | -- | -- | -- | -- | .14 | .01 | .15 | .04 |
| JULY | | | | | | | | | | | |
| 18... | 15 | 0 | 12 | 10 | 3.9 | .1 | -- | .26 | .01 | .27 | .16 |
| AUG. | | | | | | | | | | | |
| 15... | 17 | 0 | 14 | -- | -- | -- | -- | .13 | .01 | .14 | .15 |
| SEP. | | | | | | | | | | | |
| 10... | 16 | 0 | 13 | -- | -- | -- | -- | .10 | .00 | .10 | .11 |

E Estimated value.

## 01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.--Continued

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .12 | .14 | .53 | .00 | -- | .00 | 37 | 20 | 50 | 25 |
| NOV. 15... | .08 | .16 | .44 | .00 | -- | .00 | -- | 4 | 62 | 24 |
| DEC. 12... | .07 | .20 | .59 | .02 | -- | .00 | -- | 6 | 40 | 21 |
| JAN. 17... | .05 | .09 | .46 | .02 | -- | .00 | 33 | 8 | 50 | 20 |
| FEB. 20... | .18 | .21 | .59 | .01 | -- | .00 | -- | 0 | 41 | 20 |
| MAR. 21... | .14 | .22 | .50 | .02 | -- | .00 | -- | 8 | 30 | 20 |
| APR. 18... | -- | -- | -- | .02 | -- | .01 | 29 | 12 | 42 | 20 |
| MAY 16... | .09 | .13 | .39 | .03 | .01 | -- | -- | 7 | 45 | -- |
| JUNE 12... | .18 | .22 | .37 | .01 | .01 | -- | -- | 0 | 37 | -- |
| JULY 18... | .08 | .24 | .51 | .01 | .01 | -- | -- | 1 | 56 | -- |
| AUG. 15... | .09 | .24 | .38 | .01 | .01 | -- | -- | 1 | 62 | -- |
| SEP. 10... | .00 | .11 | .21 | .02 | .01 | -- | -- | 1 | 39 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 11 | 77 | 6.9 | 12.0 | 10.4 | 97 | 2.3 | 1.3 | -- | B4 |
| NOV. 15... | 9 | 72 | 6.9 | 10.0 | 11.9 | 106 | 1.6 | .3 | -- | B2 |
| DEC. 12... | 13 | 64 | 6.5 | 3.0 | 12.5 | 94 | 1.4 | 1.5 | -- | B120 |
| JAN. 17... | 11 | 73 | 6.5 | .0 | 14.0 | 97 | -- | 2.3 | -- | 13 |
| FEB. 20... | 12 | 57 | 6.8 | 2.0 | 14.1 | 103 | 2.1 | 2.0 | -- | B6 |
| MAR. 21... | 11 | 58 | 7.1 | 3.0 | 13.9 | 104 | 1.8 | 5.2 | -- | B31 |
| APR. 18... | 11 | 55 | 6.2 | 8.0 | 11.4 | 96 | 2.4 | .0 | -- | 22 |
| MAY 16... | -- | 52 | 6.5 | 17.0 | 10.0 | 101 | .8 | .1 | 3.6 | 30 |
| JUNE 12... | -- | 66 | 7.1 | 19.0 | 9.4 | 99 | 2.5 | .5 | 1.2 | 22 |
| JULY 18... | -- | 78 | 7.7 | 26.0 | 9.2 | 112 | .4 | .8 | 1.2 | 11 |
| AUG. 15... | -- | 72 | 7.4 | 25.0 | 8.8 | 103 | .8 | .0 | -1.2 | B13 |
| SEP. 10... | -- | 63 | 7.4 | 20.0 | 9.4 | 102 | 1.3 | 2.4 | .0 | 12 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.

LOCATION.--Lat 41°40'07", long 74°46'52", Sullivan County, at bridge on State Highway 17B at Mongaup Valley.

DRAINAGE AREA.--76.5 mi² (198 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | 1410 | 66 | 2.6 | -- | 7.7 | -- | 1.8 | -- | 6.7 | -- | 1.6 |
| NOV. | | | | | | | | | | | |
| 13... | 1345 | 64 | -- | -- | 7.7 | -- | 1.8 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | | |
| 13... | 1410 | 225 | -- | -- | 7.0 | -- | 1.4 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | | |
| 15... | 1620 | 139 | 4.1 | -- | 7.0 | -- | 1.6 | -- | 5.5 | -- | 1.1 |
| FEB. | | | | | | | | | | | |
| 19... | 1510 | 108 | -- | -- | 7.4 | -- | 1.4 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 19... | 1410 | 285 | -- | -- | 6.0 | -- | 1.3 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 16... | 1600 | 350 | 1.9 | -- | 5.5 | -- | 1.2 | -- | 4.0 | -- | 1.3 |
| MAY | | | | | | | | | | | |
| 14... | 1600 | 370 | -- | 11 | -- | 1.2 | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 11... | 1520 | 80 | -- | 7.7 | -- | 1.6 | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | | |
| 16... | 1605 | 66 | 4.8 | 9.6 | -- | 1.6 | -- | 7.4 | -- | 1.4 | -- |
| AUG. | | | | | | | | | | | |
| 13... | 1540 | 63 | -- | 7.2 | -- | 1.8 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 11... | 1205 | 120 | -- | 7.5 | -- | 1.5 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 17... | 19 | 0 | 16 | 10 | 10 | -- | .0 | .73 | .00 | .74 |
| NOV. | | | | | | | | | | |
| 13... | 17 | 0 | 14 | -- | -- | -- | -- | .87 | .04 | .92 |
| DEC. | | | | | | | | | | |
| 13... | 1 | 0 | 1 | -- | -- | -- | -- | .72 | .01 | .73 |
| JAN. | | | | | | | | | | |
| 15... | 11 | 0 | 9 | 11 | 9.0 | -- | .1 | .84 | .01 | .85 |
| FEB. | | | | | | | | | | |
| 19... | 13 | 0 | 11 | -- | -- | -- | -- | .89 | .01 | .90 |
| MAR. | | | | | | | | | | |
| 19... | 8 | 0 | 7 | -- | -- | -- | -- | .67 | .00 | .67 |
| APR. | | | | | | | | | | |
| 16... | 8 | 0 | 7 | 10 | 7.2 | -- | .1 | .42 | .01 | .43 |
| MAY | | | | | | | | | | |
| 14... | 11 | 0 | 9 | -- | -- | -- | -- | .31 | .01 | .32 |
| JUNE | | | | | | | | | | |
| 11... | 12 | 0 | 10 | -- | -- | -- | -- | .81 | .02 | .83 |
| JULY | | | | | | | | | | |
| 16... | 16 | 0 | 13 | 12 | 12 | .2 | -- | 1.1 | .01 | 1.1 |
| AUG. | | | | | | | | | | |
| 13... | 14 | 0 | 11 | -- | -- | -- | -- | 1.1 | .03 | 1.1 |
| SEP. | | | | | | | | | | |
| 11... | 15 | 0 | 12 | -- | -- | -- | -- | .74 | .00 | .74 |

01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | TOTAL RESI- DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>17... | .07 | .19 | .26 | 1.0 | .14 | -- | .12 | 51 | 0 | 48 |
| NOV.<br>13... | .18 | .27 | .45 | 1.4 | .11 | -- | .08 | -- | 9 | 74 |
| DEC.<br>13... | .30 | .00 | .30 | 1.0 | .05 | -- | .03 | -- | 6 | 50 |
| JAN.<br>15... | .22 | .18 | .40 | 1.2 | .07 | -- | .04 | 45 | 2 | 68 |
| FEB.<br>19... | .37 | .18 | .55 | 1.4 | .08 | -- | .06 | -- | 5 | 63 |
| MAR.<br>19... | .22 | .05 | .27 | .94 | .05 | -- | .03 | -- | 20 | 55 |
| APR.<br>16... | -- | -- | -- | -- | .05 | -- | .03 | 35 | 12 | 54 |
| MAY<br>14... | .10 | .33 | .43 | .75 | .07 | .03 | -- | -- | 7 | 62 |
| JUNE<br>11... | .05 | .29 | .34 | 1.2 | .12 | .10 | -- | -- | 2 | 68 |
| JULY<br>10... | .27 | .05 | .32 | 1.4 | .16 | .14 | -- | -- | 2 | 60 |
| AUG.<br>13... | .24 | .10 | .34 | 1.4 | .15 | .14 | -- | -- | 1 | 75 |
| SEP.<br>11... | .26 | .04 | .30 | 1.0 | .10 | .08 | -- | -- | 1 | 61 |

| DATE | HARD- NESS (CA,MG) (MG/L) | NON- CAR- BONATE HARD- NESS (MG/L) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | TEMPER- ATURE (DEG C) | DIS- SOLVED OXYGEN (MG/L) | PER- CENT SATUR- ATION | BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO- PHYLL A (UG/L) | FECAL COLI- FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>17... | 27 | 11 | 104 | 6.8 | 10.0 | 11.2 | 100 | 2.2 | -- | 22 |
| NOV.<br>13... | 27 | 13 | 104 | 6.9 | 5.0 | 11.9 | 94 | 3.3 | -- | 10 |
| DEC.<br>13... | 23 | 22 | 79 | 6.7 | 1.0 | 12.8 | 90 | 3.0 | -- | 48 |
| JAN.<br>15... | 24 | 15 | 97 | 6.0 | 1.0 | 12.0 | 85 | 2.0 | -- | 8 |
| FEB.<br>19... | 24 | 14 | 97 | 6.5 | .0 | 12.3 | 85 | 3.0 | -- | <1 |
| MAR.<br>19... | 20 | 15 | 67 | 6.3 | 3.0 | 12.8 | 96 | 1.4 | -- | 82 |
| APR.<br>16... | 19 | 12 | 71 | 6.1 | 9.0 | 12.0 | 105 | 1.7 | 1.5 | 87 |
| MAY<br>14... | -- | -- | 64 | 6.1 | 15.0 | 9.6 | 94 | 3.8 | -- | B81 |
| JUNE<br>11... | -- | -- | 102 | 7.5 | 22.0 | 9.1 | 103 | 4.0 | -- | 45 |
| JULY<br>10... | -- | -- | 115 | 7.2 | 24.0 | 9.3 | 110 | 3.2 | -- | 23 |
| AUG.<br>13... | -- | -- | 117 | 7.2 | 24.0 | 9.2 | 108 | -- | -- | 35 |
| SEP.<br>11... | -- | -- | 83 | 7.1 | 16.0 | 9.6 | 97 | 1.3 | -- | 58 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.--Continued

### PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|---|---|---|---|
| May 14 1973 | 1,100 | *Scenedesmus* spp. | 50 | June 14 1973 | 720 | *Synedra* sp. | 35 |
| | | | | | | *Navicula* sp. | 26 |
| July 9 1973 | 2,000 | *Scenedesmus* sp. | 26 | Aug. 20 1973 | 1,100 | *Scenedesmus* sp. | 64 |
| | | *Coelastrum* sp. | 63 | | | *Sphaerocystis schroeteri* | 20 |
| Sept. 12 1973 | 550 | *Navicula* sp. | 45 | Oct. 17 1973 | 730 | *Navicula* sp. | 32 |
| | | *Scenedesmus* sp. | 18 | | | *Sphaerocystis schroeteri* | 19 |
| Nov. 13 1973 | 250 | *Oscillatoria* | 23 | Dec. 13 1973 | 460 | *Melosira* sp. | 65 |
| Jan. 15 1974 | 224,000 | *Oscillatoria* | 99+ | Feb. 19 1974 | 230 | *Scenedesmus* | 24 |
| | | | | | | *Nitzschia* | 18 |
| | | | | | | *Achnanthes* | 18 |
| Mar. 19 1974 | 300 | *Achnanthes* | 33 | Apr. 16 1974 | 559 | *Cymbella* | 19 |
| | | *Scenedesmus* | 15 | | | *Navicula* | 19 |
| May 14 1974 | 3,500 | *Scenedesmus* | 31 | June 11 1974 | 6,300 | *Scenedesmus* | 28 |
| | | *Anacystis* | 25 | | | *Anacystis* | 20 |
| | | *Navicula* | 8 | | | *Anabaena* | 16 |
| | | *Tetrastrum* | 8 | | | *Navicula* | 7 |
| | | *Cyclotella* | 6 | | | *Nitzschia* | 6 |
| | | *Achnanthes* | 5 | | | *Crucigenia* | 6 |
| | | *Fragilaria* | 4 | | | *Synedra* | 2 |
| | | *Nitzschia* | 3 | | | *Cyclotella* | 2 |
| | | *Synedra* | 3 | | | *Selenastrum* | 2 |
| | | *Gomphonema* | 2 | | | *Kirchneriella* | 2 |
| | | *Ankistrodesmus* | 2 | | | *Ankistrodesmus* | 2 |
| | | *Cymbella* | 1 | | | *Planktosphaeria* | 2 |
| | | *Pinnularia* | 1 | | | *Oocystis* | 2 |
| | | | | | | *Cymbella* | 1 |
| | | | | | | *Achnanthes* | 1 |
| | | | | | | *Melosira* | 1 |
| | | | | | | *Gomphonema* | <1 |
| | | | | | | *Tetraedron* | <1 |
| July 16 1974 | 3,400 | *Scenedesmus* | 28 | Aug. 13 1974 | 130 | *Nitzschia* | 26 |
| | | *Navicula* | 15 | | | *Anacystis* | 16 |
| | | *Nitzschia* | 12 | | | *Chlorococcum* | 15 |
| | | *Coelastrum* | 10 | | | *Scenedesmus* | 9 |
| | | *Cyclotella* | 7 | | | *Navicula* | 7 |
| | | *Crucigenia* | 7 | | | *Cyclotella* | 7 |
| | | *Anacystis* | 6 | | | *Ankistrodesmus* | 6 |
| | | *Synedra* | 3 | | | *Oocystis* | 5 |
| | | *Pediastrum* | 3 | | | *Gomphonema* | 3 |
| | | *Kirchneriella* | 3 | | | *Euastrum* | 2 |
| | | *Achnanthes* | 2 | | | *Selenastrum* | 2 |
| | | *Oocystis* | 2 | | | *Melosira* | 1 |
| | | *Cymbella* | 1 | | | | |
| | | *Gomphonema* | 1 | | | | |
| | | *Golenkinia* | 1 | | | | |
| Sept. 11 1974 | 1,700 | *Anacystis* | 58 | | | | |
| | | *Scenedesmus* | 29 | | | | |
| | | *Navicula* | 10 | | | | |
| | | *Melosira* | 2 | | | | |
| | | *Achnanthes* | 1 | | | | |
| | | *Tetraedron* | 1 | | | | |

## 01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.

LOCATION.--Lat 41°34'02", long 74°47'01", Sullivan County, at private bridge, 0.3 mi (0.5 km) upstream from Black Lake Creek and 0.4 mi (0.6 km) downstream from dam and Swinging Bridge Reservoir.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 1630 | 24 | 1.7 | -- | 5.0 | -- | 1.3 | -- | 2.2 | -- | 1.0 |
| NOV. 13... | 1510 | 24 | -- | -- | 5.0 | -- | 1.3 | -- | -- | -- | -- |
| DEC. 13... | 0945 | 1010 | -- | -- | 5.4 | -- | 1.3 | -- | -- | -- | -- |
| JAN. 16... | 0915 | 530 | 2.8 | -- | 4.9 | -- | 1.2 | -- | 4.3 | -- | 1.1 |
| FEB. 20... | 1100 | 1510 | -- | -- | 5.2 | -- | 1.0 | -- | -- | -- | -- |
| MAR. 20... | 1000 | 1000 | -- | -- | 6.2 | -- | 1.5 | -- | -- | -- | -- |
| APR. 16... | 1800 | 570 | 2.5 | -- | 5.0 | -- | 1.2 | -- | 5.0 | -- | 1.2 |
| MAY 15... | 0835 | 560 | -- | 5.5 | -- | 1.2 | -- | -- | -- | -- | -- |
| JUNE 11... | 1900 | 1630 | -- | 6.1 | -- | 1.2 | -- | -- | -- | -- | -- |
| JULY 17... | 0915 | 590 | 2.1 | 5.1 | -- | 1.2 | -- | 4.2 | -- | 1.0 | -- |
| AUG. 14... | 1030 | 600 | -- | 8.0 | -- | 1.3 | -- | -- | -- | -- | -- |
| SEP. 11... | 1000 | 1750 | -- | 5.0 | -- | 1.3 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 11 | 0 | 9 | 9.0 | 5.0 | -- | .4 | .23 | .00 | .23 |
| NOV. 13... | 11 | 0 | 9 | -- | -- | -- | -- | .18 | .00 | .18 |
| DEC. 13... | 9 | 0 | 7 | -- | -- | -- | -- | .24 | .01 | .25 |
| JAN. 16... | 6 | 0 | 5 | 10 | 7.1 | -- | .1 | .55 | .02 | .57 |
| FEB. 20... | 7 | 0 | 6 | -- | -- | -- | -- | .54 | .01 | .55 |
| MAR. 20... | 13 | 0 | 11 | -- | -- | -- | -- | .57 | .00 | .57 |
| APR. 16... | 7 | 0 | 6 | 10 | 8.7 | -- | .1 | .48 | .01 | .49 |
| MAY 15... | 9 | 0 | 7 | -- | -- | -- | -- | .41 | .01 | .42 |
| JUNE 11... | 5 | 0 | 4 | -- | -- | -- | -- | .20 | .01 | .21 |
| JULY 17... | 9 | 0 | 7 | 11 | 6.4 | .2 | -- | .42 | .01 | .43 |
| AUG. 14... | 9 | 0 | 7 | -- | -- | -- | -- | .36 | .02 | .38 |
| SEP. 11... | 16 | 0 | 13 | -- | -- | -- | -- | .20 | .00 | .20 |

CONTINUED NEXT PAGE

## 01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | TOTAL RESI-DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | .07 | .23 | .30 | .53 | .03 | -- | .01 | 31 | 0 | 40 |
| NOV. 13... | .05 | .23 | .28 | .46 | .04 | -- | .01 | -- | 8 | 61 |
| DEC. 13... | .23 | .03 | .26 | .51 | .02 | -- | .00 | -- | 4 | 40 |
| JAN. 16... | .15 | .11 | .26 | .83 | .04 | -- | .02 | 35 | 0 | 57 |
| FEB. 20... | .15 | .13 | .28 | .83 | .03 | -- | .02 | -- | 4 | 50 |
| MAR. 20... | .28 | .04 | .32 | .89 | .04 | -- | .03 | -- | 1 | 51 |
| APR. 16... | -- | -- | -- | -- | .03 | -- | .01 | 37 | 5 | 52 |
| MAY 15... | .15 | .12 | .27 | .69 | .03 | .01 | -- | -- | 1 | 49 |
| JUNE 11... | .15 | .28 | .43 | .64 | .04 | .02 | -- | -- | 0 | 47 |
| JULY 17... | .35 | .00 | .32 | .75 | .05 | .03 | -- | -- | 4 | 60 |
| AUG. 14... | .55 | .00 | .55 | .93 | .06 | .04 | -- | -- | 2 | 52 |
| SEP. 11... | .25 | .26 | .51 | .71 | .05 | .02 | -- | -- | 1 | 44 |

| DATE | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO-PHYLL A (UG/L) | FECAL COLI-FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 18 | 9 | 66 | 6.6 | 16.0 | 8.3 | 85 | 2.1 | -- | <1 |
| NOV. 13... | 18 | 9 | 65 | 7.0 | 9.0 | 9.1 | 91 | 2.7 | -- | <1 |
| DEC. 13... | 19 | 11 | 69 | 6.9 | 6.0 | 10.0 | 81 | 1.5 | -- | <1 |
| JAN. 16... | 17 | 12 | 75 | 5.9 | 2.0 | 12.8 | 97 | 5.0 | -- | <1 |
| FEB. 20... | 17 | 11 | 79 | 6.2 | 2.0 | 12.0 | 87 | 1.8 | -- | <1 |
| MAR. 20... | 22 | 11 | 81 | 6.3 | .0 | 12.2 | 85 | 1.6 | -- | <1 |
| APR. 16... | 17 | 12 | 72 | 6.1 | 9.0 | 11.0 | 87 | 2.0 | .0 | <1 |
| MAY 15... | -- | -- | 73 | 6.0 | 9.0 | 9.0 | 78 | .7 | -- | <1 |
| JUNE 11... | -- | -- | 70 | 6.8 | 17.0 | 7.4 | 76 | 3.2 | -- | B3 |
| JULY 17... | -- | -- | 81 | 7.1 | 17.0 | 4.0 | 41 | 3.4 | -- | B3 |
| AUG. 14... | -- | -- | 76 | 7.1 | 18.0 | 3.2 | 34 | -- | -- | B27 |
| SEP. 11... | -- | -- | 64 | 7.1 | 19.0 | 6.2 | 67 | 1.8 | -- | 14 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.--Continued

### PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|---|---|---|---|
| May 14 1973 | 430 | *Melosira* sp. | 19 | June 14 1973 | 70 | *Scenedesmus* sp. | 19 |
| | | *Scenedesmus* sp. | 18 | | | *Melosira* sp. | 21 |
| | | | | | | *Audouinella* sp. | 32 |
| July 26 1973 | 5,100 | *Pseudoparachymatous mass | 93 | Aug. 20 1973 | 26,000 | *Aphanizomenon flos-aquae* | 97 |
| Sept. 13 1973 | 560 | *Oscillatoria* sp. | 20 | Oct. 17 1973 | 2,800 | *Melosira* sp. | 19 |
| | | *Scenedesmus* sp. | 19 | | | *Sphaerocystis schroeteri* | 21 |
| | | | | | | *Pseudoparachymatous mass | 23 |
| Nov. 13 1973 | 4,200 | *Melosira* | 83 | Dec. 13 1973 | 2,800 | *Melosira* spp. | 90 |
| Jan. 16 1974 | 27,000 | *Oscillatoria* | 99 | Feb. 20 1974 | 230 | *Melosira* | 39 |
| | | | | | | *Dinobryon* | 30 |
| Mar. 20 1974 | 150 | *Melosira* | 46 | Apr. 16 1974 | 1,714 | *Anacystis* | 55 |
| | | *Ankistrodesmus* | 31 | | | *Melosira* | 18 |
| | | *Navicula* | 23 | | | | |
| May 15 1974 | 2,500 | *Melosira* | 46 | June 11 1974 | 1,500 | *Chroomonas* | 51 |
| | | *Scenedesmus* | 15 | | | *Asterionella* | 13 |
| | | *Asterionella* | 9 | | | *Sphaerocystis* | 13 |
| | | *Tetrastrum* | 7 | | | *Scenedesmus* | 10 |
| | | *Navicula* | 6 | | | *Navicula* | 3 |
| | | *Cyclotella* | 5 | | | *Melosira* | 3 |
| | | *Tabellaria* | 4 | | | *Cyclotella* | 3 |
| | | *Synedra* | 3 | | | *Chlamydomonas* | 2 |
| | | *Anacystis* | 2 | | | *Closteriopsis* | 1 |
| | | *Fragilaria* | 2 | | | | |
| | | *Dinobryon* | 1 | | | | |
| July 17 1974 | 3,400 | *Scenedesmus* | 25 | Aug. 14 1974 | 1,200 | *Scenedesmus* | 32 |
| | | *Coelastrum* | 22 | | | *Cyclotella* | 16 |
| | | *Anacystis* | 15 | | | *Melosira* | 14 |
| | | *Melosira* | 13 | | | *Coelastrum* | 11 |
| | | *Cyclotella* | 8 | | | *Anacystis* | 8 |
| | | *Pediastrum* | 8 | | | *Fragilaria* | 8 |
| | | *Fragilaria* | 6 | | | *Nitzschia* | 3 |
| | | *Gomphonema* | 1 | | | *Synedra* | 3 |
| | | *Navicula* | 1 | | | *Navicula* | 1 |
| | | *Achnanthes* | 1 | | | *Asterionella* | 1 |
| | | *Chlamydomonas* | 1 | | | *Cosmarium* | 1 |
| | | | | | | *Ankistrodesmus* | 1 |
| Sept. 11 1974 | 25,000 | *Aphanizomenon* | 71 | | | | |
| | | *Anacystis* | 15 | | | | |
| | | *Gomphonema* | 10 | | | | |
| | | *Scenedesmus* | 3 | | | | |
| | | *Actinastrum* | 1 | | | | |
| | | *Cryptomonas* | <1 | | | | |

*Possible palmella or juvenile stage of *Vlotrichales*.

## 01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, at gaging station 300 ft (91 m) downstream from Rio hydroelectric plant of Orange and Rockland Utilities Inc., 0.5 mi (0.8 km) downstream from Bush Kill, and 2.8 mi (4.5 km) upstream from mouth and Mongaup.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1400 | 29 | 1.4 | -- | 5.3 | -- | 1.3 | -- | 2.0 | -- | 1.0 |
| NOV. 16... | 0900 | 29 | -- | -- | 5.0 | -- | 1.2 | -- | -- | -- | -- |
| DEC. 13... | 0805 | 727 | -- | -- | 5.5 | -- | 1.2 | -- | -- | -- | -- |
| JAN. 16... | 1100 | 664 | 2.5 | -- | 4.5 | -- | 1.1 | -- | 3.9 | -- | 1.0 |
| FEB. 20... | 1315 | 724 | -- | -- | 5.0 | -- | 1.3 | -- | -- | -- | -- |
| MAR. 20... | 1120 | 395 | -- | -- | 5.0 | -- | 1.2 | -- | -- | -- | -- |
| APR. 17... | 0855 | 724 | 2.6 | -- | 4.9 | -- | 1.1 | -- | 4.2 | -- | 1.0 |
| MAY 15... | 1040 | 736 | -- | 11 | -- | 1.2 | -- | -- | -- | -- | -- |
| JUNE 12... | 1740 | 716 | -- | 5.8 | -- | 1.1 | -- | -- | -- | -- | -- |
| JULY 17... | 1245 | 28 | 1.9 | 5.7 | -- | 1.1 | -- | 4.0 | -- | .8 | -- |
| AUG. 14... | 1210 | 716 | -- | 4.3 | -- | 1.2 | -- | -- | -- | -- | -- |
| SEP. 11... | 0815 | 728 | -- | 5.5 | -- | 1.7 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 12 | 0 | 10 | 9.1 | 4.5 | -- | .4 | .22 | .00 | .22 | .02 |
| NOV. 16... | 11 | 0 | 9 | -- | -- | -- | -- | .17 | .00 | .17 | .12 |
| DEC. 13... | 8 | 0 | 7 | -- | -- | -- | -- | .18 | .00 | .19 | .18 |
| JAN. 16... | 6 | 0 | 5 | 10 | 6.4 | -- | .1 | .41 | .01 | .42 | .12 |
| FEB. 20... | 5 | 0 | 4 | -- | -- | -- | -- | .50 | .01 | .51 | .14 |
| MAR. 20... | 8 | 0 | 7 | -- | -- | -- | -- | .43 | .00 | .43 | .22 |
| APR. 17... | 7 | 0 | 6 | 10 | 7.5 | -- | .0 | .38 | .01 | .39 | -- |
| MAY 15... | 7 | 0 | 6 | -- | -- | -- | -- | .31 | .01 | .32 | .07 |
| JUNE 12... | 7 | 0 | 6 | -- | -- | -- | -- | .24 | .01 | .25 | .10 |
| JULY 17... | 10 | 0 | 8 | 11 | 5.9 | .1 | -- | .26 | .01 | .27 | .12 |
| AUG. 14... | 10 | 0 | 8 | -- | -- | -- | -- | .23 | .01 | .24 | .18 |
| SEP. 11... | 6 | 0 | 5 | -- | -- | -- | -- | .19 | .01 | .20 | .26 |

## 01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITRO- GEN (N) (MG/L) | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | TOTAL RESI- DUE (MG/L) | HARD- NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | .25 | .27 | .49 | .02 | -- | .00 | 31 | 8 | 40 | 19 |
| NOV.<br>16... | .07 | .19 | .36 | .01 | -- | .00 | -- | 3 | 56 | 17 |
| DEC.<br>13... | .07 | .25 | .44 | .01 | -- | .00 | -- | 0 | 39 | 19 |
| JAN.<br>16... | .10 | .22 | .64 | .04 | -- | .01 | 32 | 1 | 53 | 16 |
| FEB.<br>20... | .25 | .39 | .90 | .02 | -- | .01 | -- | 5 | 38 | 18 |
| MAR.<br>20... | .05 | .27 | .70 | .02 | -- | .01 | -- | 4 | 43 | 17 |
| APR.<br>17... | -- | -- | -- | .02 | -- | .01 | 35 | 4 | 47 | 17 |
| MAY<br>15... | .12 | .19 | .51 | .02 | .00 | -- | -- | 1 | 46 | -- |
| JUNE<br>12... | .24 | .34 | .59 | .02 | .01 | -- | -- | 2 | 47 | -- |
| JULY<br>17... | .04 | .16 | .43 | .02 | .01 | -- | -- | 2 | 49 | -- |
| AUG.<br>14... | .07 | .25 | .49 | .02 | .01 | -- | -- | 1 | 60 | -- |
| SEP.<br>11... | .06 | .32 | .52 | .04 | .01 | -- | -- | 2 | 36 | -- |

| DATE | NON- CAR- BONATE HARD- NESS (MG/L) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | TEMPER- ATURE (DEG C) | DIS- SOLVED OXYGEN (MG/L) | PER- CENT SATUR- ATION | BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLORO- PHYLL A (UG/L) | CHLORO- PHYLL B (UG/L) | FECAL COLI- FORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | 9 | 61 | 6.5 | 15.0 | 9.5 | 95 | .0 | 9.5 | -- | B4 |
| NOV.<br>16... | 8 | 61 | 6.6 | 10.0 | 9.8 | 92 | 1.9 | .8 | -- | <1 |
| DEC.<br>13... | 12 | 62 | 6.4 | 5.0 | 10.6 | 84 | 2.6 | 2.5 | -- | B5 |
| JAN.<br>16... | 11 | 69 | 6.2 | 2.0 | 13.1 | 96 | 1.8 | 2.2 | -- | <1 |
| FEB.<br>20... | 14 | 73 | 6.6 | 2.0 | 12.9 | 94 | 2.3 | 3.1 | -- | <1 |
| MAR.<br>20... | 11 | 68 | 7.3 | 3.0 | 12.4 | 93 | 1.2 | 4.0 | -- | <1 |
| APR.<br>17... | 11 | 66 | 6.1 | 6.0 | 12.7 | 103 | 2.0 | 1.7 | -- | <1 |
| MAY<br>15... | -- | 68 | 6.1 | 12.0 | 10.3 | 95 | 1.8 | 5.0 | 12 | B5 |
| JUNE<br>12... | -- | 65 | 7.2 | 16.0 | 8.1 | 82 | 1.2 | 2.4 | 2.3 | B3 |
| JULY<br>17... | -- | 75 | 6.9 | 19.0 | 8.6 | 93 | 3.0 | 1.5 | 2.5 | 5 |
| AUG.<br>14... | -- | 66 | 6.9 | 21.0 | 5.0 | 56 | -- | .0 | 1.0 | 2 |
| SEP.<br>11... | -- | 66 | 7.2 | 19.0 | 7.0 | 75 | 1.3 | 6.0 | .4 | 4 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Orange County, N.Y.-Pike County, Pa., water temperature recorder at gaging station at bridge on U.S. Highway 6 and 209 in Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

DRAINAGE AREA.--3,076 $mi^2$ (7,967 $km^2$).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, July 1964 to June 1965, August 1966 to September 1974.
Water temperatures: February 1957 to September 1960, January to September 1973, June to September 1974.
Sediment records: February 1957 to September 1960; March 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C July 7, 8.
Sediment concentrations: Maximum daily, 241 mg/l Feb. 23; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 32,700 tons (29,500 tonnes) Dec. 21; minimum daily, 2.9 tons (2.6 tonnes) Aug. 9.

Period of record:
Water temperatures: Maximum, 29.5°C July 19, 1959; minimum (1957-60, 73), freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 760 mg/l June 29, 1973; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 187,000 tons (170,000 tonnes) June 29, 1973; minimum daily, 1 ton (0.9 tonne) Aug. 29, 1957.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 1200 | 1600 | 1.5 | 60 | 20 | -- | 7.5 | -- | 1.9 | -- | 3.0 |
| NOV. 15... | 1240 | 2000 | .9 | 30 | 0 | -- | 6.5 | -- | 1.7 | -- | 3.1 |
| DEC. 13... | 1055 | 8100 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. 14... | 1335 | 4020 | 3.3 | 210 | 50 | -- | 6.0 | -- | 1.3 | -- | 3.0 |
| FEB. 06... | 0945 | 5200 | 2.8 | 90 | 40 | -- | 6.0 | -- | 1.2 | -- | 4.0 |
| MAR. 13... | 1210 | 5885 | 2.3 | 100 | 20 | -- | 5.6 | -- | 1.0 | -- | 2.0 |
| MAY 08... | 1740 | 5800 | 1.7 | 110 | 40 | 6.0 | -- | 1.4 | -- | 2.4 | -- |
| 31... | 1100 | 3130 | 2.0 | 210 | 190 | 6.1 | -- | 1.9 | -- | 2.8 | -- |
| JUNE 26... | 1300 | 2310 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY 24... | 0430 | 1400 | -- | 300 | 110 | 15 | -- | 2.0 | -- | 2.8 | -- |
| AUG. 29... | 1340 | 2170 | -- | 120 | 50 | 6.5 | -- | 1.2 | -- | 2.8 | -- |
| SEP. 24... | 1800 | 2010 | -- | 220 | 40 | 7.5 | -- | 2.4 | -- | 2.4 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | -- | 2.5 | 18 | 0 | 15 | 9.0 | 4.5 | -- | .1 | .37 | .04 |
| NOV. 15... | -- | 1.0 | 18 | 0 | 15 | 8.6 | 4.6 | -- | .2 | .28 | .13 |
| DEC. 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. 14... | -- | .8 | 10 | 0 | 8 | 11 | 4.4 | -- | .1 | .49 | .02 |
| FEB. 06... | -- | 1.0 | 10 | 0 | 8 | 11 | 3.6 | -- | .4 | .43 | .00 |
| MAR. 13... | -- | .8 | 9 | 0 | 7 | 10 | 3.3 | -- | .1 | .32 | .04 |
| MAY 08... | .6 | -- | 24 | 0 | 20 | 10 | 3.5 | .0 | -- | .26 | .00 |
| 31... | .7 | -- | 17 | 0 | 14 | 8.4 | 4.5 | .2 | -- | .22 | .02 |
| JUNE 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY 24... | 1.3 | -- | 13 | 0 | 11 | 11 | 4.1 | -- | -- | .24 | .15 |
| AUG. 29... | .8 | -- | 12 | 0 | 10 | 10 | 3.7 | -- | -- | .21 | .10 |
| SEP. 24... | 1.0 | -- | 15 | 0 | 12 | 8.4 | 3.9 | -- | -- | .15 | .14 |

## 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL NITRITE (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | .00 | .16 | .20 | .58 | .04 | -- | .00 | 39 | 186 | 166 |
| NOV. | | | | | | | | | | |
| 15... | .00 | .00 | .13 | .42 | .00 | -- | .00 | 35 | 55 | 35 |
| DEC. | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 14... | .01 | .56 | .58 | 1.1 | .02 | -- | .01 | 35 | 54 | 38 |
| FEB. | | | | | | | | | | |
| 06... | .00 | .11 | .11 | .54 | .02 | -- | .01 | 35 | 40 | 26 |
| MAR. | | | | | | | | | | |
| 13... | .01 | .09 | .13 | .46 | .02 | -- | .01 | 30 | 44 | 35 |
| MAY | | | | | | | | | | |
| 08... | .01 | .21 | .21 | .48 | .02 | .01 | -- | -- | 48 | -- |
| 31... | .01 | .53 | .55 | .78 | .01 | .00 | -- | -- | 70 | 70 |
| JUNE | | | | | | | | | | |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 24... | .01 | .00 | .06 | .31 | .04 | .01 | -- | -- | 47 | -- |
| AUG. | | | | | | | | | | |
| 29... | .00 | .03 | .13 | .34 | .02 | .01 | -- | -- | 46 | 21 |
| SEP. | | | | | | | | | | |
| 24... | .00 | .06 | .20 | .35 | .02 | .01 | -- | -- | 38 | 38 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 3 | 0 | 27 | 12 | 62 | 7.0 | 14.0 | -- | -- | 8.6 |
| NOV. | | | | | | | | | | |
| 15... | 5 | 2 | 23 | 8 | 70 | 6.4 | 8.5 | -- | -- | 11.9 |
| DEC. | | | | | | | | | | |
| 13... | -- | -- | -- | -- | -- | 6.2 | 2.0 | -- | -- | 10.5 |
| JAN. | | | | | | | | | | |
| 14... | 10 | 8 | 20 | 12 | 75 | 6.8 | .0 | -- | -- | 12.5 |
| FEB. | | | | | | | | | | |
| 06... | 6 | 5 | 20 | 12 | 66 | 6.8 | .0 | -- | -- | 12.8 |
| MAR. | | | | | | | | | | |
| 13... | 8 | 4 | 18 | 11 | 58 | 5.8 | 2.0 | -- | -- | 12.8 |
| MAY | | | | | | | | | | |
| 08... | 4 | 1 | -- | -- | 67 | 7.0 | 11.0 | -- | -- | 11.9 |
| 31... | -- | 4 | -- | -- | 71 | 6.9 | 17.0 | -- | -- | 9.5 |
| JUNE | | | | | | | | | | |
| 26... | -- | -- | -- | -- | 50 | 8.0 | 19.0 | -- | -- | 9.6 |
| JULY | | | | | | | | | | |
| 24... | 3 | 3 | -- | -- | 69 | 7.0 | 21.0 | 1 | 2 | 8.3 |
| AUG. | | | | | | | | | | |
| 29... | 11 | 4 | -- | -- | 67 | 7.6 | 22.0 | 2 | 2 | 9.0 |
| SEP. | | | | | | | | | | |
| 24... | 4 | 2 | -- | -- | 78 | 7.7 | 15.5 | 3 | 1 | 10.6 |

| DATE | PERCENT SATURATION | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 83 | 5 | -- | -- | -- | -- | -- | -- | -- | .0 |
| NOV. | | | | | | | | | | |
| 15... | 100 | 6 | .6 | -- | B70 | B1 | 7 | .5 | .00 | .0 |
| DEC. | | | | | | | | | | |
| 13... | 76 | -- | .7 | -- | B130 | 98 | 67 | -- | .00 | -- |
| JAN. | | | | | | | | | | |
| 14... | 99 | 7 | .9 | -- | B65 | B6 | B4 | -- | .00 | .0 |
| FEB. | | | | | | | | | | |
| 06... | 97 | 5 | 1.7 | -- | B24 | B8 | B2 | -- | .01 | .0 |
| MAR. | | | | | | | | | | |
| 13... | 92 | 5 | 2.5 | -- | B30 | B1 | B1 | -- | .00 | .0 |
| MAY | | | | | | | | | | |
| 08... | 107 | 7 | 31 | 1.7 | B140 | B8 | <1 | -- | .00 | .0 |
| 31... | 98 | 6 | .4 | .6 | 960 | 37 | 21 | -- | .01 | -- |
| JUNE | | | | | | | | | | |
| 26... | 102 | -- | .5 | .3 | 430 | 89 | 23 | -- | .00 | -- |
| JULY | | | | | | | | | | |
| 24... | 91 | 7 | 2.0 | .3 | 3700 | 10 | 130 | -- | .01 | -- |
| AUG. | | | | | | | | | | |
| 29... | 102 | 7 | 2.2 | .8 | -- | 51 | B210 | 3.4 | .01 | -- |
| SEP. | | | | | | | | | | |
| 24... | 102 | 8 | 4.0 | 2.7 | -- | B6 | 61 | 4.8 | .00 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL BORON (B) (UG/L) | TOTAL CADMIUM (CU) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) |
|---|---|---|---|---|---|---|---|
| NOV. 15... | 1240 | 3 | -- | 0 | 0 | 0 | 0 |
| DEC. 13... | 1055 | 0 | 950 | 0 | 0 | 2 | 13 |
| JAN. 14... | 1335 | 1 | 1400 | 0 | 0 | 0 | 3 |
| FEB. 06... | 0945 | 2 | 20 | 0 | <10 | 0 | 0 |
| MAR. 13... | 1210 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAY 08... | 1740 | 2 | 0 | 0 | 0 | 1 | 0 |
| 31... | 1100 | 4 | 10 | 0 | 10 | 1 | 0 |
| JUNE 26... | 1300 | 0 | 40 | 0 | 10 | 1 | 0 |
| JULY 24... | 0930 | 0 | 0 | 0 | 0 | 0 | 10 |
| AUG. 29... | 1340 | 1 | 10 | 0 | 0 | 0 | 0 |
| SEP. 24... | 1800 | 1 | 10 | 0 | 0 | 1 | 10 |

| DATE | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL SELENIUM (SE) (UG/L) | TOTAL STRONTIUM (SR) (UG/L) | TOTAL VANADIUM (V) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|
| NOV. 15... | 0 | <.5 | -- | 30 | -- | 0 |
| DEC. 13... | -- | <.5 | 1 | 20 | 6.7 | 35 |
| JAN. 14... | 6 | <.5 | -- | 20 | 6.8 | 10 |
| FEB. 06... | 0 | -- | 2 | 10 | 1.4 | 0 |
| MAR. 13... | 0 | -- | 3 | 10 | .7 | 10 |
| MAY 08... | 4 | <.5 | 0 | 70 | .0 | 40 |
| 31... | 3 | <.5 | 3 | 50 | .0 | 10 |
| JUNE 26... | 1 | <.5 | 1 | 50 | .1 | 620 |
| JULY 24... | 2 | <.5 | <1 | 50 | 2.6 | 0 |
| AUG. 29... | 1 | <.5 | 0 | 40 | .5 | 0 |
| SEP. 24... | 1 | <.5 | 3 | 40 | .1 | 80 |

| DATE | TIME | TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG) | TOTAL NITRITE IN BOTTOM DEPOSITS (N) (MG/KG) | TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG) | TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG) | TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG) | ORGANIC CARBON IN BED MATERIAL (C) (G/KG) | INORGANIC CARBON IN BED MATERIAL (G/KG) | TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G) | TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G) |
|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 15... | 1240 | 14 | .0 | 180 | 1960 | 767 | 4.7 | .1 | 39 | 0 |
| JULY 24... | 0930 | -- | -- | 15 | 290 | 65 | 1.2 | .1 | 6 | 1 |

| DATE | TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G) | TOTAL COBALT IN BOTTOM DEPOSITS (UG/G) | TOTAL COPPER IN BOTTOM DEPOSITS (UG/G) | TOTAL IRON IN BOTTOM DEPOSITS (UG/G) | TOTAL LEAD IN BOTTOM DEPOSITS (UG/G) | TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G) | TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G) | TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G) | TOTAL ZINC IN BOTTOM DEPOSITS (UG/G) |
|---|---|---|---|---|---|---|---|---|---|
| NOV. 15... | 6 | -- | 24 | 45000 | 350 | 100000 | .1 | -- | 120 |
| JULY 24... | 4 | 5 | 7 | 6700 | 20 | 380 | .0 | <5 | 35 |

## 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### PESTICIDE ANALYSIS

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | HEPTA-CHLOR (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | |
| 15... | 1240 | .00 | .0 | .00 | .00 | .09 | .00 | .00 | .00 |

| DATE | HEPTA-CHLOR EPOXIDE (UG/L) | LINDANE (UG/L) | DI-AZINON (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | PARA-THION (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) | PCB (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | |
| 15... | .00 | .00 | .00 | .00 | .00 | .09 | .00 | .00 | .0 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | |
| 15... | 1240 | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

| DATE | LINDANE IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| NOV. | | | | | | | | | | |
| 15... | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 |

### TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1974

| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | --- | --- | --- | 23.0 | 20.5 | 22.0 | 23.0 | 21.0 | 22.5 | 23.0 | 20.5 | 22.0 |
| 2 | --- | --- | --- | 23.5 | 21.0 | 22.5 | 24.5 | 21.5 | 23.0 | 22.0 | 20.0 | 20.5 |
| 3 | --- | --- | --- | 25.0 | 22.5 | 23.5 | 24.0 | 22.5 | 23.5 | 20.0 | 19.0 | 19.0 |
| 4 | --- | --- | --- | 25.5 | 23.0 | 24.0 | 24.5 | 22.5 | 23.5 | 18.5 | 17.5 | 18.0 |
| 5 | --- | --- | --- | 25.5 | 24.5 | 25.0 | 24.5 | 22.5 | 23.5 | 18.0 | 16.5 | 17.5 |
| 6 | --- | --- | --- | 26.0 | 23.5 | 25.0 | 24.0 | 22.0 | 23.0 | 18.0 | 17.5 | 17.5 |
| 7 | --- | --- | --- | 27.0 | 24.0 | 26.0 | 23.0 | 21.5 | 22.5 | 18.5 | 17.0 | 17.5 |
| 8 | --- | --- | --- | 27.0 | 25.0 | 26.0 | 24.0 | 21.5 | 22.5 | 19.5 | 18.0 | 19.0 |
| 9 | --- | --- | --- | 25.5 | 24.5 | 25.0 | 24.5 | 23.0 | 23.5 | 19.5 | 19.0 | 19.5 |
| 10 | --- | --- | --- | 26.0 | 23.5 | 24.5 | 25.0 | 22.5 | 23.5 | 20.5 | 19.0 | 20.0 |
| 11 | --- | --- | --- | 25.0 | 22.0 | 23.5 | 24.5 | 22.0 | 23.5 | 21.5 | 19.5 | 20.5 |
| 12 | --- | --- | --- | 24.5 | 22.0 | 23.5 | 24.5 | 22.0 | 23.5 | 22.5 | 20.0 | 21.5 |
| 13 | --- | --- | --- | 25.5 | 21.5 | 23.5 | 24.5 | 22.5 | 23.5 | 23.0 | 21.0 | 22.0 |
| 14 | --- | --- | --- | 26.0 | 23.0 | 24.5 | 25.5 | 22.5 | 24.0 | 22.5 | 20.0 | 21.5 |
| 15 | --- | --- | --- | 26.5 | 24.5 | 26.0 | 25.5 | 22.5 | 24.0 | 20.5 | 19.0 | 20.0 |
| 16 | --- | --- | --- | 25.5 | 23.0 | 24.5 | 25.0 | 22.5 | 24.0 | 20.0 | 18.5 | 19.9 |
| 17 | --- | --- | --- | 25.0 | 22.0 | 23.5 | 24.5 | 23.0 | 23.5 | 19.5 | 18.0 | 19.0 |
| 18 | --- | --- | --- | 25.0 | 23.5 | 24.5 | 23.5 | 22.5 | 23.0 | 19.5 | 18.5 | 19.0 |
| 19 | --- | --- | --- | 25.5 | 23.0 | 24.5 | 24.0 | 21.5 | 23.0 | 20.0 | 18.5 | 19.0 |
| 20 | --- | --- | --- | 25.0 | 22.5 | 24.0 | 24.0 | 21.5 | 23.0 | 20.0 | 18.5 | 19.5 |
| 21 | --- | --- | --- | 24.5 | 21.5 | 23.5 | 24.5 | 22.0 | 23.5 | 20.0 | 19.0 | 19.5 |
| 22 | --- | --- | --- | 25.0 | 21.5 | 23.5 | 23.5 | 22.0 | 23.0 | 19.0 | 17.0 | 18.0 |
| 23 | --- | --- | --- | 23.5 | 21.5 | 22.5 | 24.0 | 22.5 | 23.0 | 17.5 | 15.5 | 16.5 |
| 24 | --- | --- | --- | 22.5 | 20.0 | 21.0 | 25.0 | 22.5 | 24.0 | 15.5 | 13.5 | 15.0 |
| 25 | --- | --- | --- | 20.5 | 19.5 | 20.0 | 25.0 | 22.5 | 24.0 | 15.0 | 13.0 | 14.0 |
| 26 | 19.5 | 18.5 | 19.0 | 20.5 | 19.0 | 20.0 | 24.0 | 22.0 | 23.0 | 15.0 | 13.0 | 14.5 |
| 27 | 20.5 | 18.5 | 19.5 | 21.5 | 19.0 | 20.0 | 23.5 | 21.5 | 22.5 | 16.0 | 14.0 | 15.0 |
| 28 | 20.0 | 18.5 | 19.0 | 23.5 | 20.5 | 22.0 | 23.5 | 22.0 | 22.5 | 16.0 | 15.0 | 15.5 |
| 29 | 20.5 | 18.0 | 19.0 | 23.0 | 21.5 | 22.5 | 23.0 | 21.0 | 22.5 | 17.0 | 16.0 | 16.5 |
| 30 | 22.0 | 18.5 | 20.5 | 22.5 | 20.0 | 21.5 | 23.0 | 22.0 | 22.0 | 16.5 | 15.0 | 15.5 |
| 31 | --- | --- | --- | 22.5 | 21.5 | 22.0 | 22.0 | 21.0 | 21.5 | --- | --- | --- |

CONTINUED NEXT PAGE

## 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

## PHYTOPLANKTON ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|---|---|---|---|
| Nov. 15 1973 | 1,000 | *Oscillatoria* | 44 | July 24 1974 | 3,400 | *Oscillatoria* | 47 |
| | | *Agmenellum* | 22 | | | *Scenedesmus* | 14 |
| | | | | | | *Melosira* | 9 |
| | | | | | | *Anacystis* | 7 |
| | | | | | | *Synedra* | 6 |
| | | | | | | *Navicula* | 5 |
| | | | | | | *Eudorina* | 5 |
| | | | | | | *Cyclotella* | 4 |
| | | | | | | *Cymbella* | 2 |
| | | | | | | *Hannaea* | 1 |
| | | | | | | *Oocystis* | 1 |
| | | | | | | *Kirchneriella* | 1 |
| Aug. 23 1974 | 710 | *Scenedesmus* | 64 | Sept. 24 1974 | 2,400 | *Melosira* | 48 |
| | | *Navicula* | 15 | | | *Crucigenia* | 20 |
| | | *Melosira* | 6 | | | *Anabaena* | 7 |
| | | *Nitzschia* | 4 | | | *Anacystis* | 7 |
| | | *Gomphonema* | 2 | | | *Scenedesmus* | 7 |
| | | *Achnanthes* | 2 | | | *Oscillatoria* | 3 |
| | | *Synedra* | 2 | | | *Navicula* | 3 |
| | | *Kirchneriella* | 2 | | | *Ankistrodesmus* | 3 |
| | | *Ankistrodesmus* | 2 | | | *Cosmarium* | 2 |
| | | | | | | *Selenastrum* | 2 |

### 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

### SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | OCTOBER | | | NOVEMBER | | | DECEMBER | | |
|---|---|---|---|---|---|---|---|---|---|
| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1 | 1450 | 5 | 23 | 2130 | 3 | 17 | 4480 | 5 | 60 |
| 2 | 1600 | 4 | 17 | 1830 | 3 | 15 | 3790 | 4 | 41 |
| 3 | 1870 | 2 | 10 | 1740 | 3 | 14 | 3400 | 4 | 37 |
| 4 | 1680 | 1 | 4.5 | 1720 | 3 | 14 | 3040 | 3 | 25 |
| 5 | 3340 | 1 | 9.0 | 1530 | 2 | 8.3 | 3290 | 13 | 115 |
| 6 | 3010 | 2 | 16 | 1310 | 1 | 3.5 | 8090 | 35 | 765 |
| 7 | 1580 | 3 | 13 | 1560 | 1 | 4.2 | 9710 | 38 | 996 |
| 8 | 1780 | 2 | 9.6 | 1850 | 2 | 10 | 7100 | 22 | 422 |
| 9 | 2420 | 1 | 6.5 | 1960 | 3 | 16 | 6960 | 12 | 225 |
| 10 | 2290 | 1 | 6.2 | 2040 | 3 | 17 | 20200 | 113 | 6160 |
| 11 | 1720 | 1 | 4.6 | 2070 | 2 | 11 | 14400 | 38 | 1600 |
| 12 | 1360 | 1 | 3.7 | 2050 | 2 | 11 | 10400 | 32 | 899 |
| 13 | 2330 | 1 | 6.3 | 2250 | 2 | 12 | 8090 | 5 | 109 |
| 14 | 2290 | 1 | 5.6 | 2310 | 1 | 6.2 | 7850 | 9 | 191 |
| 15 | 1920 | 1 | 4.2 | 2210 | 1 | 6.0 | 7850 | 8 | 170 |
| 16 | 1830 | 1 | 3.0 | 2250 | 1 | 6.1 | 6530 | 10 | 176 |
| 17 | 1810 | 1 | 3.0 | 2360 | 1 | 6.4 | 5660 | 11 | 168 |
| 18 | 1830 | 1 | 3.4 | 2380 | 2 | 13 | 4730 | 9 | 115 |
| 19 | 1830 | 1 | 3.7 | 2310 | 2 | 12 | 4200 | 9 | 102 |
| 20 | 1900 | 1 | 3.6 | 2170 | 2 | 12 | 3760 | 9 | 91 |
| 21 | 1890 | 1 | 3.4 | 2070 | 1 | 5.6 | 34300 | 218 | 32700 |
| 22 | 2040 | 1 | 4.4 | 1320 | 1 | 3.6 | 45100 | 188 | 24200 |
| 23 | 2290 | 1 | 6.2 | 1340 | 1 | 3.6 | 21600 | 66 | 3850 |
| 24 | 2420 | 1 | 5.8 | 1850 | 2 | 10 | 15300 | 19 | 785 |
| 25 | 2020 | 1 | 3.4 | 2170 | 3 | 18 | 10300 | 8 | 222 |
| 26 | 1940 | 1 | 3.5 | 3370 | 3 | 27 | 9580 | 12 | 310 |
| 27 | 1960 | 1 | 3.6 | 3620 | 2 | 20 | 21100 | 47 | 3100 |
| 28 | 1870 | 1 | 3.5 | 4350 | 2 | 23 | 28700 | 47 | 3750 |
| 29 | 2270 | 3 | 18 | 6270 | 7 | 119 | 22000 | 10 | 594 |
| 30 | 3010 | 3 | 24 | 5520 | 6 | 89 | 16600 | 4 | 179 |
| 31 | 2500 | 2 | 14 | -- | -- | -- | 13300 | 6 | 215 |
| TOTAL | 64050 | -- | 245.7 | 71910 | -- | 533.5 | 381890 | -- | 82372 |

| | JANUARY | | | FEBRUARY | | | MARCH | | |
|---|---|---|---|---|---|---|---|---|---|
| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1 | 11800 | 5 | 159 | 13300 | 29 | 1040 | 6470 | 1 | 17 |
| 2 | 10800 | 4 | 117 | 11400 | 50 | 1540 | 6340 | 1 | 17 |
| 3 | 9530 | 6 | 154 | 9710 | 23 | 603 | 5920 | 1 | 16 |
| 4 | 8630 | 5 | 117 | 8800 | 8 | 190 | 5860 | 1 | 16 |
| 5 | 7100 | 4 | 77 | 8130 | 4 | 88 | 7850 | 8 | 170 |
| 6 | 6090 | 5 | 82 | 6830 | 6 | 111 | 12400 | 20 | 670 |
| 7 | 6120 | 6 | 99 | 6000 | 7 | 113 | 12100 | 16 | 523 |
| 8 | 5800 | 3 | 47 | 5800 | 7 | 110 | 11700 | 14 | 442 |
| 9 | 5020 | 3 | 41 | 5400 | 8 | 117 | 11700 | 19 | 600 |
| 10 | 4900 | 4 | 53 | 4900 | 8 | 106 | 10600 | 8 | 229 |
| 11 | 5000 | 4 | 54 | 4300 | 8 | 93 | 9760 | 4 | 105 |
| 12 | 5400 | 5 | 73 | 4500 | 7 | 85 | 8400 | 5 | 113 |
| 13 | 4900 | 4 | 53 | 4400 | 7 | 83 | 7560 | 4 | 82 |
| 14 | 4400 | 4 | 48 | 4600 | 6 | 75 | 6120 | 3 | 50 |
| 15 | 4200 | 3 | 34 | 4500 | 5 | 61 | 5870 | 3 | 48 |
| 16 | 4300 | 2 | 23 | 4400 | 5 | 59 | 5600 | 2 | 30 |
| 17 | 4600 | 3 | 37 | 3700 | 5 | 50 | 9670 | 10 | 261 |
| 18 | 4800 | 4 | 52 | 3800 | 6 | 62 | 9700 | 10 | 262 |
| 19 | 4400 | 6 | 71 | 4070 | 8 | 88 | 8570 | 8 | 185 |
| 20 | 4200 | 5 | 57 | 4480 | 7 | 85 | 7760 | 6 | 126 |
| 21 | 4410 | 5 | 60 | 4270 | 7 | 81 | 7990 | 9 | 194 |
| 22 | 6870 | 7 | 130 | 5160 | 20 | 279 | 13900 | 27 | 1010 |
| 23 | 8970 | 8 | 194 | 16000 | 241 | 10200 | 11600 | 10 | 313 |
| 24 | 9310 | 5 | 126 | 14100 | 120 | 4570 | 9950 | 8 | 215 |
| 25 | 8970 | 6 | 145 | 11900 | 14 | 450 | 10100 | 6 | 164 |
| 26 | 8220 | 7 | 155 | 9570 | 6 | 155 | 9370 | 4 | 101 |
| 27 | 8760 | 13 | 356 | 7940 | 8 | 172 | 8310 | 3 | 67 |
| 28 | 18300 | 76 | 3750 | 6980 | 2 | 38 | 7360 | 2 | 40 |
| 29 | 20800 | 43 | 2410 | -- | -- | -- | 6950 | 2 | 38 |
| 30 | 18100 | 22 | 1080 | -- | -- | -- | 6420 | 1 | 17 |
| 31 | 15000 | 13 | 527 | -- | -- | -- | 6810 | 1 | 18 |
| TOTAL | 249700 | -- | 10381 | 198940 | -- | 20704 | 268710 | -- | 6139 |

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## DELAWARE RIVER BASIN

### 01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

### SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| | APRIL | | | MAY | | | JUNE | | |
|---|---|---|---|---|---|---|---|---|---|
| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1 | 8850 | 1 | 23 | 4320 | 7 | 82 | 4190 | 3 | 34 |
| 2 | 10300 | 1 | 28 | 5150 | 5 | 70 | 6910 | 11 | 205 |
| 3 | 12300 | 4 | 133 | 4570 | 4 | 49 | 5070 | 15 | 205 |
| 4 | 15900 | 9 | 386 | 5020 | 3 | 41 | 4210 | 13 | 148 |
| 5 | 18700 | 22 | 1110 | 4790 | 3 | 39 | 4200 | 9 | 102 |
| 6 | 22100 | 47 | 2800 | 4410 | 4 | 48 | 3680 | 6 | 60 |
| 7 | 18500 | 23 | 1150 | 9040 | 6 | 82 | 3430 | 4 | 37 |
| 8 | 14800 | 12 | 480 | 5260 | 5 | 71 | 3030 | 3 | 25 |
| 9 | 15200 | 9 | 369 | 4500 | 5 | 61 | 2240 | 4 | 24 |
| 10 | 15300 | 7 | 289 | 4630 | 4 | 50 | 2520 | 5 | 34 |
| 11 | 13100 | 5 | 177 | 5150 | 4 | 56 | 2930 | 4 | 32 |
| 12 | 12700 | 4 | 137 | 4730 | 6 | 77 | 2590 | 4 | 28 |
| 13 | 12600 | 7 | 238 | 19600 | 147 | 7780 | 1920 | 4 | 21 |
| 14 | 13100 | 14 | 495 | 17300 | 43 | 2010 | 1310 | 4 | 14 |
| 15 | 18000 | 74 | 4010 | 13200 | 19 | 677 | 1760 | 11 | 52 |
| 16 | 19500 | 50 | 2630 | 10800 | 26 | 758 | 2910 | 28 | 220 |
| 17 | 16100 | 17 | 739 | 9530 | 11 | 283 | 4480 | 32 | 387 |
| 18 | 13500 | 6 | 219 | 8000 | 7 | 151 | 4410 | 22 | 262 |
| 19 | 11900 | 5 | 161 | 6380 | 7 | 121 | 3070 | 10 | 83 |
| 20 | 10200 | 5 | 138 | 5710 | 6 | 93 | 2410 | 5 | 33 |
| 21 | 8300 | 4 | 90 | 5000 | 6 | 81 | 2130 | 8 | 46 |
| 22 | 7200 | 4 | 78 | 4490 | 6 | 73 | 2420 | 6 | 39 |
| 23 | 6480 | 5 | 87 | 5010 | 6 | 81 | 2780 | 7 | 53 |
| 24 | 5880 | 5 | 79 | 4340 | 3 | 35 | 2440 | 6 | 40 |
| 25 | 5500 | 5 | 74 | 3940 | 2 | 21 | 1880 | 5 | 25 |
| 26 | 4960 | 4 | 54 | 3280 | 2 | 18 | 2120 | 4 | 23 |
| 27 | 4520 | 4 | 49 | 3140 | 2 | 17 | 2380 | 3 | 19 |
| 28 | 4110 | 4 | 44 | 2860 | 3 | 23 | 3370 | 3 | 27 |
| 29 | 3730 | 4 | 40 | 2800 | 5 | 38 | 2710 | 2 | 15 |
| 30 | 3030 | 5 | 41 | 3290 | 4 | 36 | 1640 | 2 | 8.9 |
| 31 | -- | -- | -- | 3270 | 3 | 26 | -- | -- | -- |
| TOTAL | 346200 | -- | 16348 | 189330 | -- | 13048 | 91610 | -- | 2331.9 |

| | JULY | | | AUGUST | | | SEPTEMBER | | |
|---|---|---|---|---|---|---|---|---|---|
| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1 | 2660 | 2 | 14 | 3700 | 14 | 140 | 2850 | 19 | 146 |
| 2 | 3080 | 3 | 25 | 2770 | 8 | 60 | 5810 | 28 | 439 |
| 3 | 2590 | 3 | 21 | 2360 | 6 | 38 | 7410 | 19 | 380 |
| 4 | 2690 | 4 | 29 | 1950 | 4 | 21 | 10100 | 17 | 464 |
| 5 | 2690 | 4 | 29 | 1890 | 1 | 5.1 | 10100 | 15 | 409 |
| 6 | 2120 | 5 | 29 | 1890 | 1 | 5.1 | 6800 | 9 | 165 |
| 7 | 1650 | 4 | 18 | 1580 | 1 | 4.3 | 6260 | 8 | 135 |
| 8 | 1920 | 4 | 21 | 1350 | 1 | 3.6 | 6090 | 7 | 115 |
| 9 | 2840 | 4 | 31 | 1070 | 1 | 2.9 | 5430 | 7 | 103 |
| 10 | 2620 | 4 | 28 | 1180 | 1 | 3.2 | 4540 | 6 | 74 |
| 11 | 1670 | 5 | 23 | 1430 | 2 | 7.7 | 3630 | 9 | 88 |
| 12 | 1260 | 5 | 17 | 1580 | 3 | 13 | 3380 | 5 | 45 |
| 13 | 1850 | 6 | 30 | 1710 | 3 | 14 | 3290 | 4 | 36 |
| 14 | 1720 | 7 | 33 | 1880 | 4 | 20 | 2280 | 3 | 18 |
| 15 | 1890 | 4 | 20 | 1970 | 4 | 21 | 2020 | 3 | 16 |
| 16 | 2840 | 2 | 15 | 1760 | 4 | 19 | 2340 | 2 | 13 |
| 17 | 1280 | 2 | 6.9 | 2080 | 4 | 22 | 2290 | 4 | 25 |
| 18 | 1330 | 3 | 11 | 3030 | 3 | 25 | 2220 | 8 | 48 |
| 19 | 1940 | 3 | 16 | 2560 | 3 | 21 | 2210 | 8 | 48 |
| 20 | 2200 | 3 | 18 | 2760 | 3 | 22 | 2130 | 8 | 46 |
| 21 | 1740 | 4 | 19 | 2220 | 3 | 18 | 1620 | 6 | 26 |
| 22 | 1800 | 4 | 19 | 2120 | 2 | 11 | 1980 | 5 | 27 |
| 23 | 1640 | 2 | 8.9 | 1870 | 2 | 10 | 2940 | 6 | 48 |
| 24 | 1880 | 1 | 5.1 | 1820 | 2 | 9.8 | 2860 | 7 | 54 |
| 25 | 2170 | 3 | 18 | 1760 | 3 | 14 | 2520 | 7 | 48 |
| 26 | 2170 | 4 | 23 | 1760 | 3 | 14 | 2200 | 8 | 48 |
| 27 | 2130 | 4 | 23 | 2040 | 4 | 22 | 1820 | 7 | 34 |
| 28 | 2090 | 4 | 23 | 1820 | 4 | 20 | 1950 | 7 | 37 |
| 29 | 2530 | 8 | 55 | 2120 | 5 | 29 | 5930 | 30 | 480 |
| 30 | 4970 | 26 | 349 | 1910 | 6 | 31 | 11100 | 51 | 1540 |
| 31 | 5310 | 15 | 215 | 2730 | 11 | 81 | -- | -- | -- |
| TOTAL | 71270 | -- | 1192.9 | 62670 | -- | 727.7 | 126020 | -- | 5176 |

| | |
|---|---|
| TOTAL DISCHARGE FOR YEAR (CFS-DAYS) | 2122300 |
| TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) | 159199.7 |

## 01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.

**LOCATION.**--Lat 41°53'24", long 74°35'23", Sullivan County, at gaging station 50 ft (15 m) downstream from covered bridge, 300 ft (91 m) upstream from small tributary, 2.2 mi (3.5 km) downstream from confluence of East and West Branches, and 2.2 mi (3.5 km) southwest of Claryville.

**DRAINAGE AREA.**--65.6 mi² (170 km²).

**PERIOD OF RECORD.**--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 1045 | 43 | 2.4 | -- | 3.2 | -- | .9 | -- | .7 | -- | .4 |
| NOV. 13... | 1030 | 98 | -- | -- | 3.2 | -- | .9 | -- | -- | -- | -- |
| DEC. 14... | 1035 | 495 | -- | -- | 3.0 | -- | .8 | -- | -- | -- | -- |
| JAN. 15... | 1050 | 147 | 2.2 | -- | 3.0 | -- | .9 | -- | .9 | -- | .4 |
| FEB. 19... | 1105 | 96 | -- | -- | 2.9 | -- | .8 | -- | -- | -- | -- |
| MAR. 19... | 1210 | 235 | -- | -- | 3.0 | -- | .8 | -- | -- | -- | -- |
| APR. 16... | 1125 | 525 | 1.5 | -- | 2.5 | -- | .7 | -- | .5 | -- | .4 |
| MAY 14... | 1130 | 486 | -- | 5.0 | -- | .8 | -- | -- | -- | -- | -- |
| JUNE 11... | 1130 | 109 | -- | 4.0 | -- | .8 | -- | -- | -- | -- | -- |
| JULY 16... | 1125 | 79 | 2.3 | 3.5 | -- | .9 | -- | 1.0 | -- | .3 | -- |
| AUG. 13... | 1200 | 39 | -- | 3.6 | -- | .9 | -- | -- | -- | -- | -- |
| SEP. 11... | 1550 | 79 | -- | 3.0 | -- | 1.0 | -- | -- | -- | -- | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 6 | 0 | 5 | 6.1 | 1.1 | -- | .3 | .11 | .00 | .11 | .00 |
| NOV. 13... | 5 | 0 | 4 | -- | -- | -- | -- | .38 | .00 | .38 | .02 |
| DEC. 14... | 1 | 0 | 1 | -- | -- | -- | -- | .51 | .00 | .51 | .13 |
| JAN. 15... | 3 | 0 | 2 | 5.9 | 1.5 | -- | .1 | .45 | .00 | .45 | .01 |
| FEB. 19... | 2 | 0 | 2 | -- | -- | -- | -- | .45 | .00 | .45 | .00 |
| MAR. 19... | 4 | 0 | 3 | -- | -- | -- | -- | .54 | .00 | .54 | .02 |
| APR. 16... | 3 | 0 | 2 | 6.1 | .9 | -- | .1 | .51 | .01 | .52 | -- |
| MAY 14... | 2 | 0 | 2 | -- | -- | -- | -- | .43 | .01 | .44 | .02 |
| JUNE 11... | 4 | 0 | 3 | -- | -- | -- | -- | .26 | .00 | .26 | .01 |
| JULY 16... | 3 | 0 | 2 | 7.4 | 1.0 | .2 | -- | .21 | .01 | .22 | .04 |
| AUG. 13... | 4 | 0 | 3 | -- | -- | -- | -- | .18 | .01 | .19 | .06 |
| SEP. 11... | -- | -- | -- | -- | -- | -- | -- | .15 | .00 | .15 | .03 |

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## 01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | .03 | .03 | .14 | .00 | -- | .00 | 18 | 0 | 24 | 12 |
| NOV. 13... | .01 | .03 | .41 | .00 | -- | .00 | -- | 6 | 29 | 12 |
| DEC. 14... | .00 | .13 | .64 | .00 | -- | .00 | -- | 1 | 25 | 11 |
| JAN. 15... | .00 | .01 | .46 | .00 | -- | .00 | 16 | 0 | 31 | 11 |
| FEB. 19... | .00 | .00 | .45 | .00 | -- | .00 | -- | 2 | 22 | 11 |
| MAR. 19... | -- | .01 | .55 | .00 | -- | .00 | -- | -- | 23 | 11 |
| APR. 16... | -- | -- | -- | .00 | -- | .00 | 14 | 1 | 39 | 9 |
| MAY 14... | .00 | .01 | .45 | .01 | .00 | -- | -- | 1 | 25 | -- |
| JUNE 11... | .06 | .07 | .33 | .00 | .00 | -- | -- | 0 | 21 | -- |
| JULY 16... | .03 | .07 | .29 | .01 | .00 | -- | -- | 4 | 36 | -- |
| AUG. 13... | .07 | .13 | .32 | .01 | .00 | -- | -- | 1 | 35 | -- |
| SEP. 11... | .03 | .06 | .21 | .01 | .00 | -- | -- | 0 | 16 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 7 | 35 | 6.5 | 11.0 | 9.0 | 82 | 1.5 | 1.2 | -- | B2 |
| NOV. 13... | 8 | 36 | 7.8 | 6.0 | 11.6 | 94 | 3.2 | .1 | -- | <1 |
| DEC. 14... | 10 | 30 | 6.4 | 4.0 | 11.4 | 88 | .5 | .8 | -- | B1 |
| JAN. 15... | 9 | 43 | 5.8 | 1.0 | 12.7 | 90 | 2.2 | .0 | -- | <1 |
| FEB. 19... | 9 | 35 | 7.2 | .0 | 12.2 | 85 | 1.6 | 2.8 | -- | <1 |
| MAR. 19... | 8 | 32 | 6.1 | 1.0 | 13.2 | 93 | .0 | .8 | -- | <1 |
| APR. 16... | 7 | 28 | 6.8 | 5.0 | 11.2 | 89 | .5 | .0 | -- | <1 |
| MAY 14... | -- | 28 | 5.6 | 9.0 | 10.8 | 96 | .8 | 1.6 | 4.8 | <1 |
| JUNE 11... | -- | 33 | 7.0 | 15.0 | 9.5 | 95 | 5.8 | 2.0 | .6 | B2 |
| JULY 16... | -- | 36 | 7.6 | 17.0 | 8.6 | 90 | 2.3 | 2.0 | 1.2 | 4 |
| AUG. 13... | -- | 34 | 7.5 | 16.0 | 9.6 | 98 | -- | .4 | .0 | B26 |
| SEP. 11... | -- | 35 | 7.2 | 16.0 | 8.2 | 85 | .4 | .5 | .0 | B31 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, at gaging station at downstream end of outlet channel, 1,650 ft (503 m) downstream from Neversink Dam and State Highway 55, 1.7 mi (2.7 km) southwest of Neversink, and 2.6 mi (4.2 km) upstream from Wynkoop Brook.

DRAINAGE AREA.--91.9 mi² (238 km²).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 1200 | 13 | 2.0 | -- | 3.1 | -- | .8 | -- | .6 | -- | .4 |
| NOV. 13... | 1150 | 4.8 | -- | -- | 3.0 | -- | .8 | -- | -- | -- | -- |
| DEC. 14... | 0905 | 4.8 | -- | -- | 4.0 | -- | .8 | -- | -- | -- | -- |
| JAN. 15... | 1345 | 4.2 | 1.9 | -- | 3.2 | -- | .8 | -- | .9 | -- | .5 |
| FEB. 19... | 1255 | 4.8 | -- | -- | 3.0 | -- | .7 | -- | -- | -- | -- |
| MAR. 19... | 1345 | 4.7 | -- | -- | 4.0 | -- | .8 | -- | -- | -- | -- |
| APR. 16... | 1325 | 243 | 1.8 | -- | 2.8 | -- | .8 | -- | .8 | -- | .5 |
| MAY 14... | 1355 | 386 | -- | 3.7 | -- | .8 | -- | -- | -- | -- | -- |
| JUNE 11... | 1320 | 16 | -- | 5.6 | -- | .8 | -- | -- | -- | -- | -- |
| JULY 16... | 1345 | 14 | 1.9 | 4.6 | -- | .9 | -- | 1.0 | -- | .4 | -- |
| AUG. 13... | 1340 | 30 | -- | 4.5 | -- | 1.1 | -- | -- | -- | -- | -- |
| SEP. 11... | 1440 | 15 | -- | 3.5 | -- | 1.2 | -- | -- | -- | -- | -- |

| DATE | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 3 | 0 | 2 | 6.6 | 1.2 | -- | .1 | .37 | .00 | .37 | .02 |
| NOV. 13... | 5 | 0 | 4 | -- | -- | -- | -- | .23 | .00 | .23 | .08 |
| DEC. 14... | 4 | 0 | 3 | -- | -- | -- | -- | .28 | .00 | .29 | .16 |
| JAN. 15... | 3 | 0 | 2 | 7.1 | 1.9 | -- | .1 | .39 | .01 | .40 | .02 |
| FEB. 19... | 3 | 0 | 2 | -- | -- | -- | -- | .39 | .00 | .39 | .06 |
| MAR. 19... | 6 | 0 | 5 | -- | -- | -- | -- | .43 | .00 | .43 | .06 |
| APR. 16... | 3 | 0 | 2 | 6.6 | 1.4 | -- | .1 | .40 | .01 | .41 | -- |
| MAY 14... | 4 | 0 | 3 | -- | -- | -- | -- | .39 | .01 | .40 | .02 |
| JUNE 11... | 1 | 0 | 1 | -- | -- | -- | -- | .41 | .00 | .41 | .04 |
| JULY 16... | 3 | 0 | 2 | 7.5 | 1.4 | .2 | -- | .38 | .01 | .39 | .08 |
| AUG. 13... | 3 | 0 | 2 | -- | -- | -- | -- | .35 | .03 | .38 | .11 |
| SEP. 11... | 12 | 0 | 10 | -- | -- | -- | -- | .38 | .00 | .38 | .07 |

CONTINUED NEXT PAGE

## 01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | TOTAL RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | .05 | .07 | .44 | .00 | -- | .00 | 16 | 0 | 25 | 11 |
| NOV. 13... | .00 | .08 | .31 | .00 | -- | .00 | -- | 9 | 29 | 11 |
| DEC. 14... | .00 | .16 | .45 | .00 | -- | .00 | -- | 2 | 26 | 13 |
| JAN. 15... | .05 | .07 | .47 | .01 | -- | .00 | 18 | 1 | 33 | 11 |
| FEB. 19... | .33 | .39 | .78 | .01 | -- | .00 | -- | 4 | 25 | 10 |
| MAR. 19... | .16 | .22 | .65 | .02 | -- | .00 | -- | 2 | 27 | 13 |
| APR. 16... | -- | -- | -- | .01 | -- | .00 | 16 | 4 | 24 | 10 |
| MAY 14... | .01 | .03 | .43 | .01 | .00 | -- | -- | 1 | 36 | -- |
| JUNE 11... | .16 | .20 | .61 | .00 | .00 | -- | -- | 0 | 24 | -- |
| JULY 16... | .13 | .21 | .60 | .01 | .01 | -- | -- | 1 | 31 | -- |
| AUG. 13... | .18 | .29 | .67 | .01 | .01 | -- | -- | 2 | 33 | -- |
| SEP. 11... | .17 | .24 | .62 | .01 | .00 | -- | -- | 0 | 16 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | FECAL COLIFORM (COL. PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 9 | 37 | 6.8 | 8.0 | 8.8 | 75 | 2.8 | 1.6 | -- | <1 |
| NOV. 13... | 7 | 35 | 6.6 | 7.0 | 10.0 | 83 | 3.7 | .6 | -- | <1 |
| DEC. 14... | 10 | 28 | 7.2 | 5.0 | 11.5 | 91 | .6 | .0 | -- | B2 |
| JAN. 15... | 9 | 42 | 6.1 | 1.0 | 12.8 | 94 | 2.6 | 1.0 | -- | <1 |
| FEB. 19... | 8 | 36 | 6.0 | 2.0 | 13.2 | 96 | 1.6 | -- | -- | <1 |
| MAR. 19... | 8 | 37 | 7.3 | 2.0 | 11.5 | 84 | .7 | 2.5 | -- | <1 |
| APR. 16... | 8 | 30 | 6.0 | 4.0 | 13.6 | 104 | 4.0 | .0 | -- | <1 |
| MAY 14... | -- | 32 | 6.7 | 10.0 | 12.1 | 108 | .8 | .7 | 1.6 | B2 |
| JUNE 11... | -- | 35 | 7.5 | 12.0 | 10.8 | 100 | 2.3 | .1 | 3.7 | B3 |
| JULY 16... | -- | 36 | 7.2 | 13.0 | 10.0 | 94 | 3.7 | 4.4 | 6.8 | 24 |
| AUG. 13... | -- | 36 | 7.4 | 10.0 | 8.4 | 74 | -- | .0 | .0 | B32 |
| SEP. 11... | -- | 37 | 7.4 | 10.0 | 9.9 | 88 | .6 | .5 | 1.5 | B31 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°21'40", long 74°41'07", Orange County, at bridge on U.S. Highway 6 (Main Street) in Port Jervis and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--333 mi² (862 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | 1330 | E120 | 2.2 | 130 | 20 | -- | 9.0 | -- | 1.9 | -- | 6.2 |
| NOV. | | | | | | | | | | | |
| 15... | 0920 | E130 | 2.8 | 90 | 30 | -- | 9.0 | -- | 1.8 | -- | 6.5 |
| DEC. | | | | | | | | | | | |
| 13... | 1335 | E910 | 3.4 | 120 | 20 | -- | 6.5 | -- | 1.7 | -- | 3.5 |
| JAN. | | | | | | | | | | | |
| 15... | 0945 | E410 | 4.1 | 240 | 50 | -- | 8.4 | -- | 1.8 | -- | |
| FEB. | | | | | | | | | | | |
| 06... | 1330 | E960 | 3.7 | 330 | 50 | -- | 7.5 | -- | 1.5 | -- | 4.0 |
| MAR. | | | | | | | | | | | |
| 14... | 1030 | E440 | 2.9 | 210 | 50 | -- | 8.5 | -- | 1.5 | -- | 5.1 |
| MAY | | | | | | | | | | | |
| 08... | 1350 | 493 | 2.2 | 170 | 60 | 11 | -- | 1.6 | -- | 4.2 | -- |
| 31... | 1300 | E290 | 3.2 | 240 | 40 | 9.3 | -- | 1.5 | -- | 5.2 | -- |
| JUNE | | | | | | | | | | | |
| 26... | 1000 | E250 | 3.0 | 220 | 60 | 8.0 | -- | 1.5 | -- | 3.7 | -- |
| JULY | | | | | | | | | | | |
| 24... | 1600 | E80 | -- | 430 | 130 | 9.6 | -- | 1.9 | -- | 5.5 | -- |
| AUG. | | | | | | | | | | | |
| 23... | 0900 | E130 | -- | 260 | 110 | 9.5 | -- | 1.7 | -- | 5.3 | -- |
| SEP. | | | | | | | | | | | |
| 25... | 0800 | E200 | -- | 210 | 30 | 8.0 | -- | 2.8 | -- | 4.4 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 16... | -- | 1.2 | 26 | 0 | 21 | 11 | 8.0 | -- | .2 | .63 | .00 |
| NOV. | | | | | | | | | | | |
| 15... | -- | 1.3 | 23 | 0 | 19 | 11 | 8.0 | -- | .2 | .77 | .00 |
| DEC. | | | | | | | | | | | |
| 13... | -- | .5 | 11 | 0 | 9 | 11 | 5.6 | -- | .2 | .55 | .00 |
| JAN. | | | | | | | | | | | |
| 15... | -- | 1.0 | 18 | 0 | 15 | 14 | 8.2 | -- | .0 | .72 | .04 |
| FEB. | | | | | | | | | | | |
| 06... | -- | 1.0 | 15 | 0 | 12 | 13 | 6.7 | -- | .1 | .50 | .01 |
| MAR. | | | | | | | | | | | |
| 14... | -- | 1.0 | 18 | 0 | 15 | 12 | 7.8 | -- | .2 | .50 | .01 |
| MAY | | | | | | | | | | | |
| 08... | .8 | -- | 28 | 0 | 23 | 11 | 6.1 | .1 | -- | .34 | .01 |
| 31... | 1.2 | -- | 18 | 0 | 15 | 9.2 | 5.8 | .2 | -- | .40 | .01 |
| JUNE | | | | | | | | | | | |
| 26... | 1.7 | -- | 19 | 0 | 16 | 10 | 5.8 | .1 | -- | .31 | .03 |
| JULY | | | | | | | | | | | |
| 24... | 1.2 | -- | 25 | 0 | 21 | 12 | 7.7 | -- | -- | .40 | .01 |
| AUG. | | | | | | | | | | | |
| 23... | 1.7 | -- | 25 | 0 | 21 | 12 | 7.7 | -- | -- | .53 | .00 |
| SEP. | | | | | | | | | | | |
| 25... | 1.8 | -- | 18 | 0 | 15 | 8.8 | 6.3 | -- | -- | .33 | .00 |

E Estimated value.

CONTINUED NEXT PAGE

### 01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .03 | .20 | .23 | .87 | .18 | -- | .14 | 53 | 100 | 80 | 0 |
| NOV. 15... | .14 | .20 | .34 | 1.1 | .14 | -- | .14 | 52 | 74 | 50 | 6 |
| DEC. 13... | .02 | .08 | .10 | .65 | .06 | -- | .05 | 38 | 53 | 36 | 9 |
| JAN. 15... | .24 | .18 | .42 | 1.2 | .11 | -- | .09 | 52 | 74 | 55 | 10 |
| FEB. 06... | .18 | .17 | .35 | .96 | .08 | -- | .07 | 45 | 61 | 36 | 10 |
| MAR. 14... | .30 | .07 | .37 | .88 | .10 | -- | .09 | 48 | 55 | 43 | 8 |
| MAY 08... | .00 | .23 | .23 | .58 | .05 | .03 | -- | -- | 55 | -- | 4 |
| 31... | .02 | .78 | .80 | 1.2 | .06 | .04 | -- | -- | 60 | 48 | 5 |
| JUNE 26... | .03 | .23 | .26 | .60 | .06 | .04 | -- | -- | 53 | 36 | 6 |
| JULY 24... | .34 | .00 | .18 | .59 | .14 | .13 | -- | -- | 72 | 39 | 4 |
| AUG. 23... | .17 | .07 | .24 | .77 | .16 | .14 | -- | -- | 70 | 58 | 1 |
| SEP. 25... | .26 | .26 | .52 | .85 | .05 | .03 | -- | -- | 54 | 42 | 10 |

| DATE | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 0 | 30 | 9 | 98 | 6.6 | 13.5 | -- | -- | 8.2 | 78 |
| NOV. 15... | 2 | 30 | 11 | 159 | 6.6 | 9.5 | -- | -- | 8.8 | 77 |
| DEC. 13... | 7 | 23 | 14 | 78 | 5.8 | 1.0 | -- | -- | 13.0 | 92 |
| JAN. 15... | 9 | 28 | 14 | 99 | 6.7 | .0 | -- | -- | 10.8 | 98 |
| FEB. 06... | 5 | 25 | 13 | 87 | 5.8 | .0 | -- | -- | 12.6 | 91 |
| MAR. 14... | 4 | 27 | 13 | 95 | 5.5 | 1.0 | -- | -- | 11.6 | 90 |
| MAY 08... | 2 | -- | -- | 89 | 6.9 | 10.0 | -- | -- | 12.3 | 110 |
| 31... | 0 | -- | -- | 86 | 7.0 | 17.5 | -- | -- | 9.5 | 100 |
| JUNE 26... | 5 | -- | -- | 70 | 7.2 | 17.0 | -- | -- | 8.4 | 87 |
| JULY 24... | 3 | -- | -- | 104 | 7.1 | 19.5 | 1 | 2 | 7.9 | 85 |
| AUG. 23... | 0 | -- | -- | 95 | 7.1 | 22.0 | 5 | 3 | 8.2 | 93 |
| SEP. 25... | 2 | -- | -- | 110 | 7.3 | 10.5 | 7 | 2 | 10.6 | 97 |

### 01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 7 | -- | -- | -- | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 15... | 8 | 6100 | 160 | -- | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 13... | 9 | B10 | B14 | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 15... | 8 | B10 | B11 | -- | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 06... | 6 | B17 | <1 | -- | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 14... | 7 | 91 | B11 | -- | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 08... | 23 | B160 | B12 | 85 | -- | .0 | 1 | 0 | 6 | <.5 |
| 31... | 9 | 3000 | B40 | -- | -- | .1 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 26... | 10 | 960 | 90 | -- | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 24... | 8 | 13000 | 560 | -- | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 23... | -- | -- | 120 | -- | 5.2 | -- | 1 | 0 | 4 | <.5 |
| SEP. | | | | | | | | | | |
| 25... | 13 | -- | 210 | -- | 4.6 | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, at bridge on Bridge Street in Unadilla, 25 ft (8 m) upstream from gaging station, 1.0 mi (1.6 km) upstream from Carrs Creek, and 1.6 mi (2.6 km) downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi² (2,543 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | 1100 | 112 | 1.9 | 100 | 20 | -- | 23 | -- | 3.2 | -- | 7.0 |
| NOV. | | | | | | | | | | | |
| 19... | 1030 | 228 | 1.8 | 220 | 20 | -- | 24 | -- | 3.0 | -- | 6.0 |
| DEC. | | | | | | | | | | | |
| 12... | 1100 | 2060 | 3.6 | 1100 | 80 | -- | 16 | -- | 2.3 | -- | 3.5 |
| JAN. | | | | | | | | | | | |
| 17... | 1200 | 1460 | 3.4 | 420 | 40 | -- | 25 | -- | 2.6 | -- | 3.8 |
| FEB. | | | | | | | | | | | |
| 16... | 1630 | 1020 | 3.3 | 250 | 40 | -- | 22 | -- | 2.3 | -- | 3.0 |
| MAR. | | | | | | | | | | | |
| 18... | 1630 | 2130 | 3.3 | 550 | 40 | -- | 20 | -- | 2.2 | -- | 2.8 |
| APR. | | | | | | | | | | | |
| 18... | 1100 | 3750 | 2.9 | 930 | 50 | 12 | -- | 1.9 | -- | 2.5 | -- |
| MAY | | | | | | | | | | | |
| 23... | 1100 | 1730 | 2.7 | 920 | 60 | 18 | -- | 2.2 | -- | 3.1 | -- |
| JUNE | | | | | | | | | | | |
| 20... | 1530 | 406 | 2.0 | 270 | 40 | 22 | -- | 2.6 | -- | 9.7 | -- |
| JULY | | | | | | | | | | | |
| 25... | 1030 | 555 | -- | 740 | 30 | 25 | -- | 2.9 | -- | 4.3 | -- |
| AUG. | | | | | | | | | | | |
| 20... | 1100 | 215 | -- | 170 | 40 | 29 | -- | 3.1 | -- | 3.9 | -- |
| SEP. | | | | | | | | | | | |
| 20... | 1030 | 640 | -- | 480 | 60 | 18 | -- | 2.4 | -- | 3.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | -- | 1.2 | 79 | 0 | 65 | 13 | 8.0 | -- | .0 | .78 | .00 |
| NOV. | | | | | | | | | | | |
| 19... | -- | 1.2 | 73 | 0 | 60 | 11 | 8.7 | -- | .3 | .80 | .00 |
| DEC. | | | | | | | | | | | |
| 12... | -- | 1.6 | 42 | 0 | 34 | 14 | 5.7 | -- | .2 | .81 | .00 |
| JAN. | | | | | | | | | | | |
| 17... | -- | 1.0 | 65 | 0 | 53 | 13 | 5.5 | -- | .2 | .81 | .03 |
| FEB. | | | | | | | | | | | |
| 16... | -- | 1.0 | 62 | 0 | 51 | 13 | 5.1 | -- | .1 | .79 | .01 |
| MAR. | | | | | | | | | | | |
| 18... | -- | 1.1 | 54 | 0 | 44 | 13 | 5.2 | -- | .0 | .71 | .00 |
| APR. | | | | | | | | | | | |
| 18... | .9 | -- | 42 | 0 | 34 | 11 | 3.5 | .2 | -- | .43 | .01 |
| MAY | | | | | | | | | | | |
| 23... | 1.0 | -- | 52 | 0 | 43 | 12 | 3.5 | .1 | -- | .34 | .01 |
| JUNE | | | | | | | | | | | |
| 20... | 1.7 | -- | 68 | 0 | 56 | 12 | 5.1 | .2 | -- | .26 | .01 |
| JULY | | | | | | | | | | | |
| 25... | 1.1 | -- | 74 | 0 | 61 | 17 | 7.2 | -- | -- | .42 | .01 |
| AUG. | | | | | | | | | | | |
| 20... | .9 | -- | 78 | 0 | 64 | 17 | 9.5 | -- | -- | .43 | .00 |
| SEP. | | | | | | | | | | | |
| 20... | 1.1 | -- | 56 | 0 | 46 | 18 | 7.9 | -- | -- | .36 | .00 |

### 01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) | TOTAL RESI- DUE (MG/L) | RESIDUE ON IGNI- TION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 17... | .04 | .05 | .09 | .88 | .02 | -- | .01 | 96 | 132 | -- |
| NOV. | | | | | | | | | | |
| 19... | .04 | .03 | .07 | .87 | .03 | -- | .02 | 92 | 117 | 89 |
| DEC. | | | | | | | | | | |
| 12... | .00 | .21 | .21 | 1.0 | .04 | -- | .01 | 68 | 111 | 80 |
| JAN. | | | | | | | | | | |
| 17... | .08 | .08 | .16 | 1.0 | .03 | -- | .00 | 87 | 113 | 95 |
| FEB. | | | | | | | | | | |
| 16... | .07 | .16 | .23 | 1.0 | .02 | -- | .01 | 80 | 106 | 80 |
| MAR. | | | | | | | | | | |
| 18... | .09 | .15 | .24 | .95 | .03 | -- | .00 | 74 | 97 | 81 |
| APR. | | | | | | | | | | |
| 18... | .07 | .39 | .46 | .90 | .04 | .01 | -- | -- | 86 | 73 |
| MAY | | | | | | | | | | |
| 23... | .07 | .28 | .35 | .70 | .04 | .01 | -- | -- | 128 | 107 |
| JUNE | | | | | | | | | | |
| 20... | .07 | .36 | .43 | .70 | .05 | .03 | -- | -- | 107 | 81 |
| JULY | | | | | | | | | | |
| 25... | .22 | .02 | .24 | .67 | .05 | .01 | -- | -- | 120 | 94 |
| AUG. | | | | | | | | | | |
| 20... | .09 | .12 | .21 | .64 | .03 | .01 | -- | -- | 129 | 102 |
| SEP. | | | | | | | | | | |
| 20... | .09 | .10 | .19 | .55 | .04 | .01 | -- | -- | 86 | 73 |

| DATE | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | FIXED NON- FILT- RABLE RESIDUE (MG/L) | HARD- NESS (CA,MG) (MG/L) | NON- CAR- BONATE HARD- NESS (MG/L) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | TEMPER- ATURE (DEG C) | COLOR (PLAT- INUM- COBALT UNITS) | TUR- BID- ITY (JTU) | DIS- SOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 17... | 4 | 0 | 71 | 6 | 165 | 7.5 | 8.0 | -- | -- | 11.2 |
| NOV. | | | | | | | | | | |
| 19... | 4 | 4 | 72 | 12 | 225 | 7.6 | 3.0 | -- | -- | 14.9 |
| DEC. | | | | | | | | | | |
| 12... | 33 | 30 | 49 | 15 | 150 | 7.2 | 1.0 | -- | -- | 14.0 |
| JAN. | | | | | | | | | | |
| 17... | 4 | 1 | 73 | 20 | 190 | 7.3 | .0 | -- | -- | 14.4 |
| FEB. | | | | | | | | | | |
| 16... | 8 | 6 | 64 | 14 | 157 | 7.4 | .0 | -- | -- | 15.6 |
| MAR. | | | | | | | | | | |
| 18... | 15 | 13 | 59 | 15 | 160 | 6.5 | 4.0 | -- | -- | 14.0 |
| APR. | | | | | | | | | | |
| 18... | 16 | 8 | -- | -- | 180 | 6.8 | 30.0 | -- | -- | 12.4 |
| MAY | | | | | | | | | | |
| 23... | 24 | 18 | -- | -- | 148 | 6.9 | 17.0 | -- | -- | 8.9 |
| JUNE | | | | | | | | | | |
| 20... | 5 | 5 | -- | -- | 170 | 6.5 | 23.5 | -- | -- | -- |
| JULY | | | | | | | | | | |
| 25... | 12 | 10 | -- | -- | 200 | 7.0 | 18.0 | 1 | 10 | 8.5 |
| AUG. | | | | | | | | | | |
| 20... | 4 | 0 | -- | -- | 190 | 7.4 | 20.0 | 1 | 2 | 8.9 |
| SEP. | | | | | | | | | | |
| 20... | 6 | 3 | -- | -- | 165 | 7.3 | 16.0 | 1 | 3 | 9.1 |

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### 01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 17... | 106 | 5 | 1100 | 110 | -- | .0 | -- | -- | -- | -- |
| NOV. 19... | 104 | 4 | 340 | 440 | -- | .0 | -- | -- | -- | -- |
| DEC. 12... | 112 | 14 | B10000 | -- | -- | .0 | -- | -- | -- | -- |
| JAN. 17... | 114 | 6 | 6600 | 3800 | -- | .0 | -- | -- | -- | -- |
| FEB. 16... | 107 | 4 | 8300 | 470 | -- | .0 | -- | -- | -- | -- |
| MAR. 18... | 106 | 8 | 60 | 30 | -- | .0 | 0 | 0 | 4 | -- |
| APR. 18... | 92 | 8 | 3900 | 690 | -- | .0 | -- | -- | -- | -- |
| MAY 23... | 92 | 10 | 39000 | 2600 | -- | .0 | -- | -- | -- | -- |
| JUNE 20... | -- | 8 | B7600 | B60 | -- | .0 | -- | -- | -- | -- |
| JULY 25... | 89 | 10 | 34000 | 1300 | -- | -- | -- | -- | -- | -- |
| AUG. 20... | 98 | 9 | -- | -- | 9.3 | -- | 0 | 0 | 1 | <.5 |
| SEP. 20... | 92 | 10 | -- | -- | 4.1 | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, at gaging station at abutment of former highway bridge, 500 ft (152 m) upstream from bridge on County Highway 304 at Conklin, 0.7 mi (1.1 km) downstream from Little Snake Creek, and 3.5 mi (5.6 km) downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 $mi^2$ (5,781 $km^2$).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955, September 1972 to September 1974.
Water temperatures: October 1954 to September 1955.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | 1300 | 321 | -- | -- | -- | -- | -- | -- | -- | .24 |
| DEC. | | | | | | | | | | |
| 05... | 1400 | 1140 | -- | -- | -- | -- | -- | -- | -- | .47 |
| FEB. | | | | | | | | | | |
| 07... | 1400 | 2950 | -- | -- | -- | -- | -- | -- | -- | .80 |
| MAY | | | | | | | | | | |
| 02... | 1400 | 3250 | -- | 430 | 40 | -- | -- | -- | -- | .54 |
| 30... | 1330 | 2600 | -- | -- | -- | -- | -- | -- | -- | .32 |
| JUNE | | | | | | | | | | |
| 11... | 1400 | 1030 | -- | -- | -- | -- | -- | -- | -- | .13 |
| AUG. | | | | | | | | | | |
| 28... | 1330 | 454 | .3 | 340 | 90 | 67 | 0 | 55 | .1 | .16 |

| DATE | TOTAL NITRITE (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | .00 | .45 | .69 | .07 | 195 | 7.6 | 14.0 | 4 | 10.2 | 103 |
| DEC. | | | | | | | | | | |
| 05... | .00 | .16 | .64 | .03 | 160 | 7.2 | 6.0 | 10 | 12.3 | 111 |
| FEB. | | | | | | | | | | |
| 07... | .00 | .15 | .95 | .02 | 150 | 6.9 | .0 | 2 | 15.7 | 107 |
| MAY | | | | | | | | | | |
| 02... | .01 | .23 | .78 | .03 | 160 | 7.1 | 11.0 | 3 | 11.4 | 108 |
| 30... | .01 | .24 | .57 | .03 | 155 | 7.2 | 14.0 | 3 | 9.3 | 91 |
| JUNE | | | | | | | | | | |
| 11... | .02 | .50 | .65 | .04 | 168 | 7.9 | 23.0 | 3 | 9.0 | 106 |
| AUG. | | | | | | | | | | |
| 28... | .00 | .43 | .59 | .03 | 205 | 7.3 | 21.0 | 5 | 8.6 | 99 |

| DATE | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCCCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | 9.7 | -- | B8200 | 240 | -- | 3.7 | -- | -- | -- | 1 |
| DEC. | | | | | | | | | | |
| 05... | .5 | -- | 1400 | 180 | -- | 1.2 | -- | -- | -- | 1 |
| FEB. | | | | | | | | | | |
| 07... | 1.2 | -- | 460 | 310 | -- | 2.5 | -- | -- | -- | <1 |
| MAY | | | | | | | | | | |
| 02... | 5.5 | 9.0 | 3600 | 76 | 29 | 3.1 | .00 | -- | -- | 2 |
| 30... | 2.6 | 6.1 | 350 | 110 | 36 | 2.8 | -- | -- | -- | 1 |
| JUNE | | | | | | | | | | |
| 11... | 5.5 | 6.0 | B35000 | 280 | 600 | 2.9 | -- | -- | -- | <1 |
| AUG. | | | | | | | | | | |
| 28... | 13 | 3.5 | -- | 220 | -- | 4.0 | .00 | .0 | 0 | 1 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

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## 01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL BARIUM (BA) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | -- | -- | -- | -- | 5 | <.5 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 05... | -- | -- | -- | -- | 1 | .6 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 07... | -- | -- | -- | -- | 1 | .8 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 02... | 0 | 0 | 10 | 10 | 2 | <.5 | -- | 0 | 0 | -- |
| 30... | -- | 0 | 10 | 0 | 0 | <.5 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 11... | -- | 0 | 10 | 10 | 1 | <.5 | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 28... | -- | 0 | <10 | 0 | 3 | <.5 | 9 | 0 | -- | .6 |

## PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 30... | 1330 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | |
| 30... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 30... | 1330 | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| AUG. | | | | | | | | | | |
| 28... | 1330 | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 30... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 9 | 0 | .0 |
| AUG. | | | | | | | | | | |
| 28... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |

## RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. | | | | | | | | | |
| 28... | 1330 | 2.5 | 2.7 | 2.1 | 110 | <.4 | .8 | .7 | 5 |

## 01508800 FACTORY BROOK AT HOMER, N.Y.

**LOCATION.**--Lat 42°38'39", long 76°11'14", Cortland County, at bridge on State Highway 41, in Homer, 1.0 mi (1.6 km) upstream from mouth.

**AREA.**--15.8 mi² (40.9 km²).

**PERIOD OF RECORD.**--Chemical analyses: June 1972 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 17... | 1400 | 3.0 | 2.2 | 150 | 20 | -- | 47 | -- | 10 | -- | 3.7 | -- |
| NOV. | | | | | | | | | | | | |
| 19... | 1430 | 3.6 | 2.6 | 30 | 10 | -- | 50 | -- | 11 | -- | 4.0 | -- |
| DEC. | | | | | | | | | | | | |
| 12... | 1330 | 24 | 4.3 | 210 | 10 | -- | 38 | -- | 7.6 | -- | 4.0 | -- |
| JAN. | | | | | | | | | | | | |
| 16... | 1100 | 16 | 3.9 | 40 | 10 | -- | 46 | -- | 10 | -- | 4.6 | -- |
| FEB. | | | | | | | | | | | | |
| 13... | 1130 | 19 | 2.6 | 100 | 10 | -- | 46 | -- | 10 | -- | 3.1 | -- |
| MAR. | | | | | | | | | | | | |
| 18... | 1430 | 25 | 4.4 | 1200 | 20 | -- | 40 | -- | 8.6 | -- | 3.2 | -- |
| APR. | | | | | | | | | | | | |
| 04... | 2030 | 594 | 2.5 | -- | -- | -- | 12 | -- | 2.4 | -- | 1.5 | -- |
| 18... | 1400 | 58 | 3.0 | 250 | 20 | 35 | -- | 7.2 | -- | 3.2 | -- | 1.1 |
| MAY | | | | | | | | | | | | |
| 23... | 1400 | 36 | 3.9 | 360 | 40 | 37 | -- | 8.4 | -- | 3.7 | -- | 1.0 |
| JUNE | | | | | | | | | | | | |
| 13... | 1000 | 11 | 2.7 | 90 | 20 | 44 | -- | 9.8 | -- | 3.5 | -- | 1.0 |
| JULY | | | | | | | | | | | | |
| 25... | 1400 | 5.2 | 4.9 | 190 | 0 | 47 | -- | 10 | -- | 3.5 | -- | 1.1 |
| AUG. | | | | | | | | | | | | |
| 27... | 0930 | 3.0 | 2.5 | 180 | 10 | 47 | -- | 11 | -- | 3.4 | -- | .8 |
| SEP. | | | | | | | | | | | | |
| 30... | 1200 | 13 | 5.1 | 240 | 150 | 40 | -- | 8.5 | -- | 3.5 | -- | 1.6 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | 1.2 | 166 | 0 | 136 | 14 | 6.1 | -- | .5 | 3.0 | .00 | 3.0 |
| NOV. | | | | | | | | | | | |
| 19... | 1.2 | 166 | 0 | 136 | 17 | 6.7 | -- | .2 | 3.0 | .00 | 3.0 |
| DEC. | | | | | | | | | | | |
| 12... | 1.4 | 112 | 0 | 92 | 17 | 7.4 | -- | .3 | 3.5 | .00 | 3.5 |
| JAN. | | | | | | | | | | | |
| 16... | 1.0 | 148 | 0 | 121 | 16 | 8.3 | -- | .1 | 3.8 | .04 | 3.8 |
| FEB. | | | | | | | | | | | |
| 13... | .9 | 148 | 0 | 121 | 15 | 8.1 | -- | .1 | 3.9 | .00 | 3.9 |
| MAR. | | | | | | | | | | | |
| 18... | .9 | 135 | 0 | 111 | 15 | 8.0 | -- | .1 | 3.6 | .01 | 3.6 |
| APR. | | | | | | | | | | | |
| 04... | 2.2 | 31 | 0 | 25 | 12 | 3.6 | -- | .0 | 1.4 | .00 | 1.4 |
| 18... | -- | 116 | 0 | 95 | 18 | 7.5 | .0 | -- | 3.2 | .10 | 3.2 |
| MAY | | | | | | | | | | | |
| 23... | -- | 127 | 1 | 106 | 16 | 7.1 | .1 | -- | 2.7 | .01 | 2.7 |
| JUNE | | | | | | | | | | | |
| 13... | -- | 155 | 0 | 127 | 15 | 7.5 | .2 | -- | 3.3 | .01 | 3.3 |
| JULY | | | | | | | | | | | |
| 25... | -- | 156 | 0 | 128 | 33 | 11 | .1 | -- | 3.2 | .01 | 3.2 |
| AUG. | | | | | | | | | | | |
| 27... | -- | 166 | 0 | 136 | 30 | 9.3 | .2 | -- | 2.9 | .01 | 2.9 |
| SEP. | | | | | | | | | | | |
| 30... | -- | 137 | 0 | 112 | 10 | 8.6 | .1 | -- | 2.2 | .00 | 2.2 |

CONTINUED NEXT PAGE

### 01508800 FACTORY BROOK AT HOMER, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 17... | 166 | 160 | 22 | 320 | 8.2 | 8.0 | 12.2 | 105 | 5500 | 3300 | 1100 |
| NOV. | | | | | | | | | | | |
| 19... | 174 | 170 | 34 | 321 | 8.1 | 4.0 | 13.9 | 105 | 300 | 53 | 46 |
| DEC. | | | | | | | | | | | |
| 12... | 135 | 130 | 34 | 326 | 7.7 | 3.0 | 13.9 | 111 | B1500 | -- | 11 |
| JAN. | | | | | | | | | | | |
| 16... | 163 | 160 | 35 | 321 | 8.0 | .0 | 14.2 | 108 | B1200 | 520 | B1100 |
| FEB. | | | | | | | | | | | |
| 13... | 159 | 160 | 35 | 313 | 8.2 | 1.0 | 1.5 | 112 | B30 | 29 | B6 |
| MAR. | | | | | | | | | | | |
| 18... | 147 | 15 | 24 | 269 | 7.9 | .0 | 13.2 | 96 | 53 | 40 | B15 |
| APR. | | | | | | | | | | | |
| 04... | 51 | 40 | 14 | 96 | 6.7 | 10.0 | -- | -- | -- | -- | -- |
| 18... | -- | -- | -- | 420 | 7.6 | 3.0 | 13.9 | 103 | 96 | 28 | 50 |
| MAY | | | | | | | | | | | |
| 23... | -- | -- | -- | 240 | 8.4 | 13.0 | 9.6 | 90 | 8800 | 6800 | 2500 |
| JUNE | | | | | | | | | | | |
| 13... | -- | -- | -- | 295 | 8.1 | 10.5 | 11.4 | 102 | 8000 | 2100 | 180 |
| JULY | | | | | | | | | | | |
| 25... | -- | -- | -- | 480 | 8.0 | 15.0 | 9.8 | 96 | 7700 | 3300 | 800 |
| AUG. | | | | | | | | | | | |
| 27... | -- | -- | -- | 390 | 7.6 | 18.0 | 7.6 | 88 | 52000 | 5000 | 430 |
| SEP. | | | | | | | | | | | |
| 30... | -- | -- | -- | 325 | 7.7 | 11.0 | 11.6 | 115 | 60000 | B17000 | 1900 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.

LOCATION.--Lat 42°38'13", long 76°10'37", Cortland County, at gaging station at bridge on Wall Street, in Homer, and 3.4 mi (5.5 km) upstream from confluence with East Branch.

DRAINAGE AREA.--71.5 mi² (185 km²).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 19... | 1330 | 27 | 3.6 | 170 | 40 | -- | 49 | -- | 13 | -- | 9.5 | -- |
| FEB. 13... | 0930 | 96 | 3.5 | 160 | 20 | -- | 49 | -- | 12 | -- | 7.8 | -- |
| APR. 04... | 1925 | 1670 | 2.6 | -- | -- | -- | 18 | -- | 4.0 | -- | 3.5 | -- |
| JUNE 13... | 1130 | 79 | 2.6 | 160 | 20 | 45 | -- | 13 | -- | 8.3 | -- | .9 |
| SEP. 30... | 1000 | 56 | 3.6 | 400 | 30 | 40 | -- | 10 | -- | 7.5 | -- | 1.4 |

| DATE | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 19... | 1.3 | 184 | 0 | 151 | 21 | 17 | -- | .3 | 1.5 | .00 | 1.5 |
| FEB. 13... | 1.1 | 170 | 0 | 139 | 19 | 17 | -- | .1 | 2.0 | .01 | 2.0 |
| APR. 04... | 2.0 | 59 | 0 | 48 | 13 | 7.2 | -- | .2 | 1.2 | .00 | 1.2 |
| JUNE 13... | -- | 175 | 0 | 144 | 17 | 19 | .2 | -- | 1.4 | .02 | 1.4 |
| SEP. 30... | -- | 147 | 0 | 121 | 12 | 29 | .1 | -- | 1.0 | .00 | 1.0 |

| DATE | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV. 19... | 205 | 180 | 25 | 380 | 7.7 | 4.0 | 14.2 | 108 | 480 | 270 | 200 |
| FEB. 13... | 193 | 170 | 32 | 362 | 7.8 | 1.5 | 14.8 | 110 | 830 | 22 | 815 |
| APR. 04... | 80 | 61 | 13 | 149 | 6.9 | 7.0 | -- | -- | -- | -- | -- |
| JUNE 13... | -- | -- | -- | 420 | 7.7 | 17.0 | 8.0 | 84 | B11000 | 460 | 41 |
| SEP. 30... | -- | -- | -- | 370 | 7.3 | 12.5 | 8.6 | 80 | 24000 | 7100 | 2100 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°35'48", long 76°09'28", Cortland County, at Cortland Sewage Treatment Plant at Cortland, 0.1 mi (0.2 km) downstream from bridge on State Highway 11, and 0.4 mi (0.6 km) downstream from gaging station.

DRAINAGE AREA.--292 $mi^2$ (756 $km^2$), at gaging station including 14.0 $mi^2$ (36.3 $km^2$), the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1957.
Water temperatures: October 1956 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 20.0°C July 5; minimum, freezing point on several days during December to February.

Period of record:
Water temperatures: Maximum, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature records furnished by the city of Cortland.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT 0900)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12.5 | 9.5 | 4.5 | 2.0 | 1.0 | 2.5 | 3.5 | 11.5 | 13.0 | 14.0 | 15.5 | 16.0 |
| 2 | 12.5 | 9.0 | 4.0 | 1.5 | 0.5 | 3.0 | 2.5 | 10.0 | 13.0 | 14.0 | 16.0 | 15.0 |
| 3 | 13.0 | 8.0 | 4.0 | 2.0 | 1.0 | 3.5 | 3.0 | 9.0 | 13.5 | 17.5 | 15.5 | 14.0 |
| 4 | 13.0 | 7.5 | 6.5 | 2.5 | 1.0 | 3.0 | 6.0 | 8.5 | 14.5 | 19.0 | 17.0 | 13.5 |
| 5 | 12.5 | 7.5 | 9.0 | 1.5 | 0.5 | 3.5 | 6.0 | 9.0 | 15.0 | 20.0 | 15.5 | 13.5 |
| 6 | 11.5 | 6.0 | 7.0 | 1.5 | 1.0 | 2.0 | 3.5 | 9.0 | 15.0 | 18.5 | 16.0 | 14.0 |
| 7 | 11.5 | 6.5 | 5.0 | 2.5 | 2.0 | 4.0 | 3.0 | 8.5 | 14.5 | 18.5 | 15.0 | 15.0 |
| 8 | 11.5 | 6.5 | 4.0 | 1.5 | 1.0 | 3.5 | 3.0 | 9.0 | 14.5 | 18.5 | 14.5 | 14.0 |
| 9 | 13.0 | 6.0 | 3.5 | 0.0 | 1.0 | 3.0 | 2.5 | 9.5 | 15.5 | 18.5 | 15.5 | 14.0 |
| 10 | 12.0 | 6.0 | 3.0 | 1.0 | 1.0 | 3.0 | 2.0 | 9.0 | 17.0 | 18.5 | 15.0 | 15.0 |
| 11 | 11.0 | 6.5 | 3.0 | 3.0 | 1.5 | 3.0 | 3.0 | 8.5 | 16.0 | 17.0 | 15.0 | 15.0 |
| 12 | 11.5 | 6.5 | 3.0 | 2.0 | 1.5 | 2.5 | 4.5 | 11.0 | 16.0 | 16.0 | 15.0 | 15.5 |
| 13 | 12.0 | 6.5 | 3.0 | 0.5 | 2.0 | 1.5 | 6.0 | 9.0 | 15.0 | 15.5 | 17.5 | 18.0 |
| 14 | 12.0 | 7.0 | 3.5 | 0.0 | 2.0 | 2.0 | 7.0 | 9.0 | 14.0 | 15.0 | 17.0 | 15.0 |
| 15 | 12.5 | 6.5 | 2.0 | 3.0 | 1.5 | 3.0 | 7.5 | 13.5 | 14.0 | 16.0 | 16.0 | 14.5 |
| 16 | 10.0 | 6.0 | 1.5 | 4.0 | 1.0 | 3.5 | 5.0 | 12.5 | 13.5 | 16.5 | 15.5 | 13.5 |
| 17 | 12.0 | 6.0 | 0.0 | 2.0 | 2.0 | 1.5 | 6.5 | 13.0 | 13.0 | 16.5 | 16.0 | 13.0 |
| 18 | 9.5 | 6.5 | 1.0 | 0.0 | 2.5 | 1.5 | 7.5 | 13.0 | 14.0 | 16.0 | 17.0 | 13.0 |
| 19 | 11.0 | 7.0 | 0.0 | 0.0 | 3.0 | 2.0 | 7.5 | 13.0 | 14.0 | 16.5 | 17.0 | 12.0 |
| 20 | 10.0 | 7.0 | 1.0 | 2.0 | 3.5 | 3.0 | 7.0 | 12.5 | 14.5 | 15.0 | 17.0 | 15.0 |
| 21 | 10.0 | 6.5 | 0.0 | 1.0 | 3.0 | 2.0 | 7.5 | 12.5 | 13.0 | 14.5 | 17.0 | 14.5 |
| 22 | 8.5 | 8.0 | 0.0 | 3.0 | 3.0 | 2.0 | 10.0 | 15.0 | 15.0 | 15.0 | 17.0 | 13.5 |
| 23 | 9.0 | 7.5 | 0.5 | 4.5 | 0.0 | 2.0 | 9.5 | 15.0 | 14.5 | 14.0 | 17.0 | 9.5 |
| 24 | 9.0 | 7.0 | 0.0 | 2.0 | 0.0 | 2.5 | 7.5 | 15.0 | 14.0 | 14.0 | 17.0 | 10.0 |
| 25 | 10.0 | 9.5 | 0.0 | 0.5 | 1.0 | 2.0 | 8.0 | 12.5 | 13.5 | 14.5 | 16.0 | 10.0 |
| 26 | 10.0 | 6.0 | 1.5 | 2.5 | 1.5 | 3.0 | 8.0 | 11.5 | 13.0 | 14.5 | 15.5 | 10.0 |
| 27 | 10.0 | 7.5 | 0.5 | 4.0 | 1.0 | 3.0 | 9.0 | 10.5 | 13.5 | 15.0 | 17.0 | 10.0 |
| 28 | 9.0 | 8.5 | 1.5 | 3.0 | 2.5 | 3.5 | 9.5 | 11.0 | 14.0 | 16.5 | 16.5 | 12.0 |
| 29 | 9.5 | 7.0 | 1.5 | 4.0 | --- | 3.0 | 12.0 | 11.5 | 14.0 | 16.5 | 15.0 | 12.5 |
| 30 | 10.0 | 5.5 | 2.0 | 4.5 | --- | 3.0 | 12.0 | 11.5 | 14.0 | 16.0 | 15.5 | 11.5 |
| 31 | 8.0 | --- | 1.0 | 3.5 | --- | 2.5 | --- | 14.0 | --- | 17.0 | 16.0 | --- |
| AVERAGE | 11.0 | 7.0 | 2.5 | 2.0 | 1.5 | 2.5 | 6.5 | 11.0 | 14.5 | 16.5 | 16.0 | 13.5 |

## 01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'13", long 75°58'10", Broome County, at C.F.J. Memorial Bridge in Johnson City and 3.0 mi (4.8 km) downstream from Chenango River.

DRAINAGE AREA.--3,891 mi$^2$ (10,078 km$^2$), below mouth of Chenango River.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | 1130 | -- | -- | -- | -- | -- | -- | -- | 1.5 | .00 |
| DEC. 05... | 1230 | -- | -- | -- | -- | -- | -- | -- | .67 | .01 |
| FEB. 07... | 1200 | -- | -- | -- | -- | -- | -- | -- | 1.3 | .01 |
| MAY 02... | 1200 | -- | 350 | 20 | -- | -- | -- | -- | .97 | .02 |
| 30... | 1230 | -- | -- | -- | -- | -- | -- | -- | .65 | .01 |
| JUNE 11... | 1200 | -- | -- | -- | -- | -- | -- | -- | .70 | .06 |
| AUG. 28... | 1200 | 1.3 | 240 | 70 | 122 | 0 | 100 | .1 | .27 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | -- | -- | .03 | 390 | 8.1 | 14.0 | 1 | 9.2 | 95 | -- |
| DEC. 05... | .40 | 1.3 | .04 | 270 | 7.8 | 6.0 | 4 | 12.0 | 108 | .9 |
| FEB. 07... | .26 | 1.6 | .02 | 240 | 7.0 | .0 | 2 | 16.7 | 114 | 3.1 |
| MAY 02... | .56 | 1.6 | .04 | 290 | 7.2 | 11.0 | 3 | 11.6 | 106 | .8 |
| 30... | .30 | .96 | .02 | 240 | 7.5 | 14.5 | 4 | 9.4 | 91 | 1.8 |
| JUNE 11... | .99 | 1.8 | .04 | 315 | 7.6 | 22.5 | 2 | 8.0 | 93 | 4.5 |
| AUG. 28... | .33 | .60 | .04 | 320 | 7.5 | 22.0 | 5 | 7.8 | 91 | 9.0 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | -- | 46000 | 390 | -- | 3.0 | -- | -- | -- | 0 | -- |
| DEC. 05... | -- | B49000 | 1400 | -- | 8.0 | -- | -- | -- | <1 | -- |
| FEB. 07... | -- | 300 | 290 | -- | 1.0 | -- | -- | -- | 0 | -- |
| MAY 02... | 2.6 | 9800 | B140 | B60 | 2.3 | .02 | -- | -- | 5 | 0 |
| 30... | 1.2 | 2700 | 390 | B60 | 2.7 | -- | -- | -- | 0 | -- |
| JUNE 11... | 9.7 | B270000 | 7100 | 620 | 3.0 | -- | -- | -- | 0 | -- |
| AUG. 28... | 2.5 | -- | B23000 | -- | 4.2 | .01 | .0 | 0 | <1 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 10... | -- | -- | -- | 3 | <.5 | -- | -- | -- | -- |
| DEC. 05... | -- | -- | -- | 3 | .7 | -- | -- | -- | -- |
| FEB. 07... | -- | -- | -- | 1 | <.5 | -- | -- | -- | -- |
| MAY 02... | 3 | 10 | 10 | 2 | <.5 | -- | 0 | 4 | -- |
| 30... | 0 | 10 | 0 | 0 | <.5 | -- | -- | -- | -- |
| JUNE 11... | 2 | 20 | 10 | 2 | <.5 | -- | -- | -- | -- |
| AUG. 28... | 3 | 0 | 0 | 6 | <.5 | 14 | <2 | -- | 3.0 |

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 30... | 1230 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 30... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .14 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 30... | 1230 | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| AUG. 28... | 1200 | .0 | 0 | .5 | .0 | .0 | .0 | .0 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 30... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |
| AUG. 28... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 28... | 1200 | <1.8 | 3.7 | 3.0 | 170 | <.4 | 1.0 | .9 | 7 |

## 01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, at intake of the New York State and Gas Corporation, Goudey Station, at Johnson City, 100 ft (30 m) upstream from Little Choconut Creek, 0.5 mi (0.8 km) downstream from C.F.J. Memorial Bridge, 3.5 mi (5.6 km) downstream from Chenango River and 4.8 mi (7.7 km) upstream from former gaging station (01513500) at Vestal.

DRAINAGE AREA.--3,891 $mi^2$ (10,078 $km^2$), below mouth of Chenango River.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1974. Prior to October 1967, published as 01513500, "at Vestal."

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C June 11, July 10, 15, 18 and Aug. 14; minimum, freezing point on many days during December to March.

Period of record:
Water temperatures: Maximum, 28.0°C July 29, 1963, Aug. 18, 1965 and July 18, 1968; minimum freezing point on many days during winter periods.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures which are slightly above actual river temperatures. No record Oct. 7, Nov. 25-30, Jan. 5-6, Apr. 8, Aug. 12, Sept. 23-30.

COOPERATION.--Water temperature records furnished by the New York State Electric and Gas Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT 0800)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 10.0 | 1.0 | 0.0 | 1.0 | 0.5 | 1.0 | 14.5 | 15.5 | 18.5 | 21.5 | 20.0 |
| 2 | 15.5 | 9.5 | 0.0 | 0.0 | 0.5 | 0.5 | 2.0 | 12.0 | 16.0 | 19.5 | 21.5 | 19.5 |
| 3 | 16.5 | 10.5 | 0.0 | 0.5 | 0.5 | 1.0 | 2.0 | 12.0 | 16.0 | 21.0 | 23.0 | 20.0 |
| 4 | 18.0 | 8.5 | 3.0 | 0.5 | 0.0 | 2.0 | 4.5 | 10.5 | 16.5 | 20.5 | 23.0 | 16.0 |
| 5 | 19.0 | 6.5 | 6.5 | --- | 0.5 | 2.0 | 6.0 | 9.0 | 19.0 | 21.0 | 21.0 | 15.0 |
| 6 | 16.0 | 6.0 | 7.0 | --- | 0.0 | 1.5 | 5.0 | 10.0 | 20.0 | 20.0 | 21.5 | 15.0 |
| 7 | --- | 4.5 | 4.5 | 0.5 | 0.0 | 3.0 | 3.0 | 8.5 | 20.0 | 20.5 | 22.0 | 15.5 |
| 8 | 14.5 | 4.5 | 2.0 | 0.5 | 0.0 | 3.5 | --- | 8.0 | 20.0 | 21.5 | 21.5 | 16.5 |
| 9 | 15.5 | 5.0 | 2.0 | 0.5 | 0.0 | 2.0 | 3.0 | 10.0 | 21.0 | 23.0 | 22.0 | 18.5 |
| 10 | 16.0 | 3.5 | 1.0 | 1.0 | 0.0 | 1.5 | 1.5 | 10.5 | 23.5 | 24.0 | 21.0 | 19.0 |
| 11 | 16.0 | 3.5 | 1.5 | 1.0 | 0.0 | 1.0 | 2.0 | 8.5 | 24.0 | 22.0 | 21.0 | 19.5 |
| 12 | 14.5 | 4.0 | 1.5 | 0.5 | 0.0 | 1.5 | 4.0 | 11.0 | 21.0 | 20.5 | --- | 21.0 |
| 13 | 15.0 | 5.0 | 0.5 | 1.0 | 0.0 | 0.5 | 5.5 | 10.5 | 18.5 | 21.0 | 23.0 | 21.5 |
| 14 | 15.0 | 7.0 | 0.5 | 0.5 | 0.0 | 0.5 | 6.5 | 9.5 | 19.0 | 22.0 | 24.0 | 21.0 |
| 15 | 14.0 | 8.5 | 0.5 | 0.5 | 0.5 | 0.5 | 9.0 | 12.0 | 19.5 | 24.0 | 23.0 | 16.5 |
| 16 | 13.0 | 9.0 | 0.5 | 1.0 | 0.5 | 2.0 | 6.0 | 14.0 | 20.0 | 23.0 | 22.0 | 17.0 |
| 17 | 10.5 | 5.5 | 1.0 | 0.5 | 0.5 | 1.0 | 6.0 | 15.5 | 18.5 | 21.5 | 23.0 | 16.5 |
| 18 | 9.5 | 5.0 | 0.5 | 0.5 | 0.5 | 0.0 | 7.0 | 14.5 | 19.0 | 24.0 | 21.5 | 17.0 |
| 19 | 9.0 | 6.0 | 0.5 | 0.5 | 1.0 | 0.5 | 8.5 | 15.0 | 19.5 | 23.5 | 21.0 | 16.0 |
| 20 | 10.5 | 5.0 | 0.5 | 0.5 | 1.0 | 0.5 | 8.5 | 14.5 | 20.0 | 22.0 | 21.5 | 18.0 |
| 21 | 10.5 | 5.0 | 0.5 | 0.5 | 1.0 | 1.5 | 8.5 | 14.5 | 21.0 | 20.5 | 23.0 | 18.0 |
| 22 | 10.5 | 6.0 | 0.5 | 0.5 | 2.0 | 0.5 | 10.5 | 16.0 | 19.5 | 21.0 | 23.0 | 14.0 |
| 23 | 10.5 | 6.0 | 1.0 | 0.0 | 0.0 | 0.5 | 11.0 | 17.0 | 21.0 | 21.5 | 23.5 | --- |
| 24 | 10.0 | 6.5 | 1.5 | 0.0 | 0.0 | 1.5 | 9.5 | 16.5 | 19.0 | 19.5 | 23.5 | --- |
| 25 | 10.5 | --- | 0.5 | 0.0 | 0.0 | 0.5 | 7.0 | 15.0 | 20.0 | 17.0 | 21.5 | --- |
| 26 | 10.5 | --- | 1.5 | 0.0 | 0.0 | 0.5 | 8.5 | 19.5 | 18.5 | 19.5 | 21.0 | --- |
| 27 | 11.0 | --- | 1.5 | 1.0 | 0.0 | 1.0 | 9.0 | 12.0 | 18.0 | 19.0 | 21.5 | --- |
| 28 | 10.0 | --- | 1.0 | 1.0 | 0.0 | 1.5 | 11.0 | 13.0 | 19.0 | 21.5 | 22.0 | --- |
| 29 | 9.0 | --- | 1.5 | 1.0 | --- | 1.5 | 14.0 | 14.0 | 18.5 | 23.5 | 20.0 | --- |
| 30 | 10.0 | --- | 1.5 | 1.0 | --- | 0.5 | 15.5 | 13.5 | 17.0 | 23.0 | 20.0 | --- |
| 31 | 9.0 | --- | 4.0 | 1.0 | --- | 0.5 | --- | 15.0 | --- | 22.0 | 19.5 | --- |
| AVERAGE | 13.0 | 6.5 | 1.5 | 0.5 | 0.5 | 1.5 | 7.0 | 13.0 | 19.0 | 21.5 | 22.0 | --- |

## 01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, in Lindley, 800 ft (244 m) downstream from gaging station 1,000 ft (305 m) downstream from bridge on County Highway 120, and 6 mi (10 km) upstream from Canisteo River.

DRAINAGE AREA.--771 mi$^2$ (1,997 km$^2$).

PERIOD OF RECORD.--Chemical analyses: July 1964 to October 1965 (partial-record station), September 1973 to September 1974.
Water temperatures: August to September 1974.
Sediment records: August to September 1974.

REMARKS.--Daily specific conductance records not available October 1973 through July 1974.

### CHEMICAL ANALYSES, SEPTEMBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| SEP., 1973 | | | | | | | | | |
| 05... | 1445 | 178 | 61 | 0 | 49 | 23 | 14 | .50 | .21 |
| OCT. | | | | | | | | | |
| 09... | 1025 | 182 | 48 | 0 | 39 | 61 | 16 | .08 | .04 |
| NOV. | | | | | | | | | |
| 06... | 1600 | 405 | 38 | 0 | 31 | 49 | 8.5 | .34 | .16 |
| DEC. | | | | | | | | | |
| 11... | 1550 | 1630 | 24 | 0 | 20 | 35 | 6.8 | .66 | .04 |
| JAN., 1974 | | | | | | | | | |
| 08... | 1450 | 440 | 32 | 0 | 26 | 46 | 15 | 1.0 | .13 |
| FEB. | | | | | | | | | |
| 14... | 1530 | E500 | 35 | 0 | 29 | 31 | 10 | .70 | .20 |
| MAR. | | | | | | | | | |
| 14... | 1400 | E1160 | 24 | 0 | 19 | 28 | 5.4 | .77 | .09 |
| APR. | | | | | | | | | |
| 03... | 1710 | 3280 | 24 | 0 | 18 | 23 | 4.0 | .70 | .16 |
| MAY | | | | | | | | | |
| 02... | 1430 | 604 | 38 | 0 | 31 | 39 | 7.4 | .20 | .08 |
| JUNE | | | | | | | | | |
| 13... | 1430 | 172 | 44 | 0 | 36 | 56 | 10 | .36 | .13 |
| JULY | | | | | | | | | |
| 18... | 1245 | 119 | 36 | 0 | 30 | 73 | 12 | .09 | .07 |
| AUG. | | | | | | | | | |
| 15... | 1355 | 63 | 42 | 0 | 34 | 92 | 17 | .16 | .16 |
| SEP. | | | | | | | | | |
| 13... | 1500 | 83 | 44 | 0 | 36 | 84 | 20 | .18 | .09 |

| DATE | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION |
|---|---|---|---|---|---|---|---|---|---|
| SEP., 1973 | | | | | | | | | |
| 05... | .23 | .44 | .09 | .06 | 256 | 7.5 | 27.5 | 10.0 | 125 |
| OCT. | | | | | | | | | |
| 09... | .16 | .20 | .03 | .02 | 268 | 6.8 | 17.0 | 10.2 | 105 |
| NOV. | | | | | | | | | |
| 06... | .25 | .41 | .05 | .02 | 182 | 7.0 | 5.0 | 11.6 | 91 |
| DEC. | | | | | | | | | |
| 11... | .23 | .27 | .07 | .05 | 148 | 6.7 | 2.5 | 12.7 | 93 |
| JAN., 1974 | | | | | | | | | |
| 08... | .21 | -- | .03 | .01 | 200 | 6.2 | .0 | 13.8 | 94 |
| FEB. | | | | | | | | | |
| 14... | .35 | .55 | .05 | .03 | 153 | 6.7 | .5 | 14.0 | 97 |
| MAR. | | | | | | | | | |
| 14... | .18 | .27 | .02 | .02 | 143 | 6.7 | 2.0 | 13.4 | 97 |
| APR. | | | | | | | | | |
| 03... | .45 | .61 | .10 | .03 | 118 | 6.2 | 6.5 | 12.2 | 99 |
| MAY | | | | | | | | | |
| 02... | .20 | .28 | .03 | .01 | 172 | 7.4 | 14.0 | 10.7 | 103 |
| JUNE | | | | | | | | | |
| 13... | .22 | .35 | .02 | .01 | 216 | 7.2 | 20.0 | -- | -- |
| JULY | | | | | | | | | |
| 18... | .15 | .22 | .01 | .00 | 269 | 7.2 | 24.0 | 9.0 | 106 |
| AUG. | | | | | | | | | |
| 15... | .22 | .38 | .02 | .00 | 328 | 7.4 | 25.0 | 9.2 | 110 |
| SEP. | | | | | | | | | |
| 13... | .16 | .25 | .01 | .00 | 342 | 7.4 | 24.0 | 8.4 | 99 |

E Estimated value.

## 01520500 TIOGA RIVER AT LINDLEY, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.

| DATE | TIME | TOTAL ALUMINUM (AL) (UG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) |
|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | |
| 14... | 1130 | -- | 1 | -- | -- | -- | 10 |
| APR. | | | | | | | |
| 22... | 1320 | -- | 1 | -- | -- | -- | 10 |
| MAY | | | | | | | |
| 02... | 1430 | 700 | 1 | 0 | 0 | 9 | 20 |
| JUNE | | | | | | | |
| 13... | 1430 | 0 | 1 | 0 | <10 | 9 | 10 |
| JULY | | | | | | | |
| 18... | 1245 | 280 | 1 | 1 | 0 | 38 | 20 |
| AUG. | | | | | | | |
| 12... | 1425 | -- | 1 | -- | -- | -- | 10 |
| 15... | 1355 | 80 | 0 | 0 | 0 | 13 | 0 |
| SEP. | | | | | | | |
| 13... | 1500 | 80 | 1 | 0 | <10 | 20 | 10 |

| DATE | TOTAL IRON (FE) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL SELENIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | |
| 14... | -- | 5 | -- | <.5 | -- | -- | -- |
| APR. | | | | | | | |
| 22... | -- | 0 | -- | <.5 | -- | -- | -- |
| MAY | | | | | | | |
| 02... | 490 | 14 | 570 | <.5 | 0 | 0 | 130 |
| JUNE | | | | | | | |
| 13... | 180 | 1 | 890 | <.5 | <1 | 0 | 60 |
| JULY | | | | | | | |
| 18... | 0 | 1 | 2300 | <.5 | <1 | 0 | 310 |
| AUG. | | | | | | | |
| 12... | -- | 1 | -- | <.5 | -- | -- | -- |
| 15... | 70 | 0 | 1200 | <.5 | 0 | 0 | 100 |
| SEP. | | | | | | | |
| 13... | 150 | 2 | 1500 | <.5 | 2 | 0 | 200 |

CONTINUED NEXT PAGE

## 01520500 TIOGA RIVER AT LINDLEY, N.Y.--Continued

## CHEMICAL ANALYSES, SEPTEMBER 1973 TO SEPTEMBER 1974

### SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C) AUGUST TO SEPTEMBER 1974

| DAY | AUG | SEP |
|---|---|---|
| 1 | 277 | 327 |
| 2 | --- | 304 |
| 3 | 323 | 270 |
| 4 | 310 | 184 |
| 5 | 319 | 220 |
| 6 | 287 | 245 |
| 7 | 293 | 268 |
| 8 | 280 | 284 |
| 9 | 298 | 309 |
| 10 | 294 | 316 |
| 11 | 305 | 329 |
| 12 | 326 | 333 |
| 13 | 309 | 342 |
| 14 | 330 | 339 |
| 15 | 318 | 311 |
| 16 | 335 | 295 |
| 17 | --- | 308 |
| 18 | 366 | 301 |
| 19 | 389 | 331 |
| 20 | 375 | 337 |
| 21 | 381 | 328 |
| 22 | 392 | 229 |
| 23 | 379 | 177 |
| 24 | 383 | 225 |
| 25 | 361 | 243 |
| 26 | 379 | 268 |
| 27 | 378 | 285 |
| 28 | 391 | 295 |
| 29 | 405 | 304 |
| 30 | 378 | 302 |
| 31 | 357 | --- |
| AVERAGE | 342 | 287 |

### TEMPERATURE (°C) OF WATER, AUGUST TO SEPTEMBER 1974 (ONCE-DAILY MEASUREMENT)

| DAY | AUG | SEP |
|---|---|---|
| 1 | 22.5 | 20.5 |
| 2 | --- | 21.0 |
| 3 | 22.5 | 17.5 |
| 4 | 23.5 | 15.0 |
| 5 | 21.0 | 15.5 |
| 6 | 21.5 | 16.5 |
| 7 | 25.0 | 16.0 |
| 8 | 23.5 | 20.0 |
| 9 | 22.0 | 20.0 |
| 10 | 22.5 | 20.0 |
| 11 | 22.5 | 21.0 |
| 12 | 22.5 | 21.5 |
| 13 | 23.5 | 23.0 |
| 14 | 25.0 | 20.0 |
| 15 | 24.0 | 18.0 |
| 16 | 24.0 | 18.0 |
| 17 | --- | 18.0 |
| 18 | 25.0 | 17.5 |
| 19 | 24.0 | 17.0 |
| 20 | 23.5 | 18.5 |
| 21 | 24.5 | 18.0 |
| 22 | 24.5 | 13.0 |
| 23 | 24.5 | 11.0 |
| 24 | 23.5 | 10.0 |
| 25 | 21.5 | --- |
| 26 | 23.0 | 11.0 |
| 27 | 24.5 | 13.0 |
| 28 | 23.0 | 16.0 |
| 29 | 20.0 | 18.0 |
| 30 | 20.0 | 14.5 |
| 31 | 22.0 | --- |
| AVERAGE | 23.0 | 17.0 |

### SUSPENDED-SEDIMENT DISCHARGE, AUGUST TO SEPTEMBER 1974

| | AUGUST | | | SEPTEMBER | | |
|---|---|---|---|---|---|---|
| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN- TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN- TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
| 1 | 113 | 9 | 2.7 | 113 | 12 | 3.7 |
| 2 | 95 | 10 | 2.6 | 154 | 16 | 6.7 |
| 3 | 88 | 11 | 2.6 | 440 | 50 | 59 |
| 4 | 125 | 9 | 3.0 | 891 | 95 | 229 |
| 5 | 165 | 7 | 3.1 | 336 | 21 | 19 |
| 6 | 128 | 9 | 3.1 | 214 | 14 | 8.1 |
| 7 | 105 | 7 | 2.0 | 165 | 14 | 6.2 |
| 8 | 90 | 5 | 1.2 | 137 | 12 | 4.4 |
| 9 | 88 | 6 | 1.4 | 119 | 10 | 3.2 |
| 10 | 93 | 4 | 1.0 | 103 | 11 | 3.1 |
| 11 | 85 | 3 | .69 | 95 | 8 | 2.1 |
| 12 | 77 | 4 | .83 | 88 | 11 | 2.6 |
| 13 | 77 | 5 | 1.0 | 83 | 10 | 2.2 |
| 14 | 70 | 3 | .57 | 144 | 13 | 5.1 |
| 15 | 62 | 6 | 1.0 | 134 | 16 | 5.8 |
| 16 | 59 | 5 | .80 | 98 | 13 | 3.4 |
| 17 | 61 | 6 | .99 | 83 | 6 | 1.3 |
| 18 | 66 | 8 | 1.4 | 79 | 3 | .64 |
| 19 | 68 | 6 | 1.1 | 90 | 6 | 1.5 |
| 20 | 66 | 10 | 1.8 | 90 | 7 | 1.7 |
| 21 | 61 | 12 | 2.0 | 137 | 17 | 6.3 |
| 22 | 56 | 11 | 1.7 | 703 | 80 | 152 |
| 23 | 52 | 9 | 1.3 | 331 | 24 | 21 |
| 24 | 49 | 7 | .93 | 230 | 13 | 8.1 |
| 25 | 49 | 10 | 1.3 | 186 | 10 | 5.0 |
| 26 | 49 | 10 | 1.3 | 165 | 7 | 3.1 |
| 27 | 46 | 7 | .87 | 147 | 6 | 2.4 |
| 28 | 56 | 12 | 1.8 | 125 | 6 | 2.0 |
| 29 | 66 | 30 | 5.3 | 116 | 6 | 1.9 |
| 30 | 108 | 8 | 2.3 | 151 | 5 | 2.0 |
| 31 | 168 | 13 | 5.9 | -- | -- | -- |
| TOTAL | 2541 | -- | 57.58 | 5947 | -- | 572.54 |

## 01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, at gaging station at highway bridge, 1.3 mi (2.1 km) upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi² (173 km²).

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | 1130 | 3.9 | .7 | 40 | 20 | -- | 45 | -- | 11 | -- | 8.2 |
| NOV. | | | | | | | | | | | |
| 20... | 1000 | 9.4 | 2.2 | 240 | 30 | -- | 45 | -- | 11 | -- | 10 |
| DEC. | | | | | | | | | | | |
| 19... | 1400 | 30 | 4.9 | 370 | 40 | -- | 35 | -- | 8.4 | -- | 8.0 |
| JAN. | | | | | | | | | | | |
| 23... | 1400 | 193 | 4.1 | 900 | 70 | -- | 18 | -- | 5.0 | -- | 4.3 |
| FEB. | | | | | | | | | | | |
| 21... | 1500 | 54 | 3.4 | 370 | 40 | -- | 27 | -- | 6.5 | -- | 6.0 |
| MAR. | | | | | | | | | | | |
| 18... | 1100 | 44 | 4.0 | 320 | 50 | -- | 25 | -- | 6.2 | -- | 5.0 |
| APR. | | | | | | | | | | | |
| 22... | 1030 | 66 | 2.1 | 530 | 40 | 25 | -- | 5.6 | -- | 4.1 | -- |
| MAY | | | | | | | | | | | |
| 21... | 1100 | 56 | 3.5 | 660 | 50 | 22 | -- | 5.8 | -- | 5.0 | -- |
| JUNE | | | | | | | | | | | |
| 19... | 1030 | 15 | 3.5 | 770 | 70 | 38 | -- | 8.2 | -- | 9.8 | -- |
| JULY | | | | | | | | | | | |
| 23... | 1030 | 4.2 | -- | 370 | 60 | 41 | -- | 11 | -- | 10 | -- |
| AUG. | | | | | | | | | | | |
| 23... | 1000 | 4.2 | -- | 210 | 60 | 41 | -- | 11 | -- | 9.1 | -- |
| SEP. | | | | | | | | | | | |
| 18... | 1030 | 5.2 | -- | 1700 | 70 | 42 | -- | 10 | -- | 9.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | -- | 2.0 | 154 | 0 | 126 | 31 | 14 | -- | .4 | .22 | .00 |
| NOV. | | | | | | | | | | | |
| 20... | -- | 2.2 | 132 | 0 | 108 | 45 | 17 | -- | .2 | .42 | .00 |
| DEC. | | | | | | | | | | | |
| 19... | -- | 1.9 | 92 | 0 | 75 | 40 | 12 | -- | .3 | 1.0 | .06 |
| JAN. | | | | | | | | | | | |
| 23... | -- | 1.3 | 45 | 0 | 37 | 27 | 2.8 | -- | .1 | 1.1 | .03 |
| FEB. | | | | | | | | | | | |
| 21... | -- | 1.2 | 78 | 0 | 64 | 28 | 10 | -- | .0 | .86 | .01 |
| MAR. | | | | | | | | | | | |
| 18... | -- | 2.5 | 67 | 0 | 55 | 27 | 8.8 | -- | .0 | 1.2 | .00 |
| APR. | | | | | | | | | | | |
| 22... | 1.4 | -- | 68 | 0 | 56 | 25 | 7.5 | .2 | -- | .71 | .01 |
| MAY | | | | | | | | | | | |
| 21... | 1.4 | -- | 70 | 0 | 57 | 24 | 8.6 | .1 | -- | .37 | .01 |
| JUNE | | | | | | | | | | | |
| 19... | 1.4 | -- | 112 | 0 | 92 | 25 | 13 | .2 | -- | .65 | .02 |
| JULY | | | | | | | | | | | |
| 23... | 1.5 | -- | 152 | 0 | 125 | 33 | 16 | -- | -- | .29 | .01 |
| AUG. | | | | | | | | | | | |
| 23... | 1.0 | -- | 149 | 0 | 122 | -- | 19 | -- | -- | .12 | .01 |
| SEP. | | | | | | | | | | | |
| 18... | 1.6 | -- | 137 | 0 | 112 | 33 | 19 | -- | -- | .15 | .00 |

CONTINUED NEXT PAGE

## 01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .01 | .19 | .20 | .42 | .10 | -- | .01 | 188 | 212 | 182 |
| NOV. 20... | .05 | .14 | .19 | .61 | .02 | -- | .01 | 198 | 220 | 164 |
| DEC. 19... | .06 | .17 | .23 | 1.3 | .05 | -- | .04 | 156 | 181 | 149 |
| JAN. 23... | .17 | .19 | .36 | 1.5 | .06 | -- | .03 | 85 | 146 | 95 |
| FEB. 21... | .02 | .25 | .27 | 1.1 | .06 | -- | .05 | 121 | 149 | 118 |
| MAR. 18... | .13 | .06 | .19 | 1.4 | .06 | -- | .04 | 112 | 140 | 109 |
| APR. 22... | .20 | .06 | .26 | .98 | .04 | .02 | -- | -- | 116 | 104 |
| MAY 21... | .06 | .40 | .46 | .84 | .07 | .01 | -- | -- | 152 | 118 |
| JUNE 19... | .10 | .40 | .50 | 1.2 | .10 | .05 | -- | -- | 199 | 162 |
| JULY 23... | .36 | .00 | .21 | .51 | .06 | .03 | -- | -- | 234 | 182 |
| AUG. 23... | .02 | .35 | .37 | .50 | .05 | .02 | -- | -- | 239 | 181 |
| SEP. 18... | .22 | .09 | .31 | .46 | .03 | .01 | -- | -- | 217 | 189 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 0 | 0 | 124 | 0 | 400 | 7.9 | 6.0 | -- | -- | 13.0 |
| NOV. 20... | 5 | 0 | 158 | 50 | 400 | 7.8 | 1.0 | -- | -- | 14.0 |
| DEC. 19... | 10 | 9 | 108 | 33 | 310 | 7.6 | .0 | -- | -- | 13.6 |
| JAN. 23... | 18 | 13 | 63 | 26 | 210 | 7.3 | .0 | -- | -- | 14.0 |
| FEB. 21... | 10 | 8 | 92 | 28 | 300 | 7.4 | .0 | -- | -- | 13.6 |
| MAR. 18... | 7 | 6 | 83 | 28 | 260 | 7.3 | .0 | -- | -- | 14.3 |
| APR. 22... | 8 | 7 | -- | -- | 280 | 7.3 | 5.0 | -- | -- | 13.4 |
| MAY 21... | 13 | 9 | -- | -- | 230 | 7.3 | 13.0 | -- | -- | 9.8 |
| JUNE 19... | 12 | 10 | -- | -- | 305 | 7.5 | 16.0 | -- | -- | 8.8 |
| JULY 23... | 5 | 4 | -- | -- | 430 | 7.7 | 18.0 | 4 | 4 | 8.6 |
| AUG. 23... | 2 | 0 | -- | -- | 390 | 7.9 | 21.0 | 2 | 5 | 8.8 |
| SEP. 18... | 3 | 2 | -- | -- | 400 | 7.3 | 13.5 | 4 | 2 | 9.8 |

## 01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 18... | 109 | 9 | 590 | 52 | -- | .0 | 6 | 0 | 0 | <.5 |
| NOV. | | | | | | | | | | |
| 20... | 99 | 11 | 830 | 36 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 19... | 93 | 12 | 800 | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 23... | 115 | 12 | 1400 | 160 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 21... | 106 | 9 | 810 | 814 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 18... | 116 | 8 | 41 | 47 | -- | .0 | -- | 0 | 6 | -- |
| APR. | | | | | | | | | | |
| 22... | 106 | 11 | 1300 | 72 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 21... | 93 | 15 | 1200 | 190 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 19... | 90 | 16 | 4700 | 300 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 23... | 91 | 13 | B32000 | 380 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 23... | 101 | 16 | -- | -- | 4.3 | -- | 8 | 0 | 0 | <.5 |
| SEP. | | | | | | | | | | |
| 18... | 93 | 17 | -- | -- | 6.3 | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.

LOCATION.--Lat 42°01'02", long 76°43'24", Chemung County, at bridge on State Highway 367 in Wellsburg, 0.4 mi (0.6 km) downstream from Bentley Creek and 6.3 mi (10.1 km) upstream from gaging station (01531000) at Chemung.

DRAINAGE AREA.--2,506 mi$^2$ (6,491 km$^2$) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | 0930 | -- | -- | -- | -- | -- | -- | -- | .54 | .05 |
| DEC. | | | | | | | | | | |
| 05... | 1000 | -- | -- | -- | -- | -- | -- | -- | .59 | .02 |
| FEB. | | | | | | | | | | |
| 07... | 1000 | -- | -- | -- | -- | -- | -- | -- | 1.1 | .01 |
| MAY | | | | | | | | | | |
| 02... | 0930 | -- | 780 | 140 | -- | -- | -- | -- | .50 | .02 |
| 30... | 1000 | -- | -- | -- | -- | -- | -- | -- | .41 | .04 |
| JUNE | | | | | | | | | | |
| 11... | 1000 | -- | -- | -- | -- | -- | -- | -- | .42 | .11 |
| AUG. | | | | | | | | | | |
| 28... | 0900 | 2.7 | 390 | 130 | 147 | 0 | 121 | .3 | .65 | .17 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | .41 | 1.0 | .16 | 430 | 7.7 | 15.0 | 6 | 9.0 | 91 | 4.0 |
| DEC. | | | | | | | | | | |
| 05... | .26 | .87 | .03 | 310 | 7.5 | 5.5 | 6 | 12.4 | 110 | 1.7 |
| FEB. | | | | | | | | | | |
| 07... | .28 | 1.4 | .06 | 280 | 7.2 | .0 | 4 | 15.2 | 104 | 1.5 |
| MAY | | | | | | | | | | |
| 02... | .31 | .83 | .07 | 300 | 7.6 | 11.5 | 7 | 10.0 | 94 | 6.9 |
| 30... | .61 | 1.1 | .08 | 320 | 7.6 | 15.5 | 6 | 9.0 | 89 | 1.9 |
| JUNE | | | | | | | | | | |
| 11... | .92 | 1.5 | .17 | 420 | 7.6 | 23.0 | 6 | 5.4 | 64 | 4.3 |
| AUG. | | | | | | | | | | |
| 28... | .71 | 1.5 | .26 | 500 | 7.3 | 23.0 | 10 | 4.4 | 50 | 18 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 10... | -- | 33000 | B100 | -- | 3.6 | -- | -- | -- | 1 | -- |
| DEC. | | | | | | | | | | |
| 05... | -- | 17000 | 490 | -- | 11 | -- | -- | -- | 1 | -- |
| FEB. | | | | | | | | | | |
| 07... | -- | 4400 | 2100 | -- | 3.0 | -- | -- | -- | <1 | -- |
| MAY | | | | | | | | | | |
| 02... | 16 | 14000 | B60 | B50 | -- | .00 | -- | -- | 2 | 0 |
| 30... | 5.4 | 6200 | 8960 | B20 | 2.3 | -- | -- | -- | 0 | -- |
| JUNE | | | | | | | | | | |
| 11... | 7.3 | B280000 | B37000 | B20 | 3.3 | -- | -- | -- | <1 | -- |
| AUG. | | | | | | | | | | |
| 28... | 3.0 | -- | B70 | -- | 6.2 | .01 | .0 | 2 | 2 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 10... | -- | -- | -- | 5 | <.5 | -- | -- | -- | -- |
| DEC. | | | | | | | | | |
| 05... | -- | -- | -- | 3 | .8 | -- | -- | -- | -- |
| FEB. | | | | | | | | | |
| 07... | -- | -- | -- | 0 | <.5 | -- | -- | -- | -- |
| MAY | | | | | | | | | |
| 02... | 0 | <10 | 10 | 2 | <.5 | -- | -- | -- | -- |
| 30... | 0 | 10 | 10 | 2 | <.5 | -- | 0 | 0 | -- |
| JUNE | | | | | | | | | |
| 11... | 0 | 10 | 10 | 1 | <.5 | -- | -- | -- | -- |
| AUG. | | | | | | | | | |
| 28... | 0 | <10 | 0 | 3 | <.5 | 7 | 0 | -- | 1.3 |

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 30... | 1000 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | |
| 30... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 30... | 1000 | .0 | 0 | .4 | .0 | .0 | .0 | .1 | .0 | .0 |
| AUG. | | | | | | | | | | |
| 28... | 0900 | .4 | 0 | .0 | .0 | .0 | .0 | .4 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 30... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |
| AUG. | | | | | | | | | | |
| 28... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. | | | | | | | | | |
| 28... | 0900 | <3.4 | 4.9 | 3.9 | 310 | <.4 | .5 | .4 | 10 |

## OHIO RIVER BASIN

## CONEWANGO CREEK BASIN

### 03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, at gaging station 300 ft (91 m) downstream from bridge on State Highway 394 in Waterboro, 0.2 mi (0.3 km) downstream from Davis Brook, and 1.9 mi (3.1 km) northeast of Kennedy.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | 1330 | 78 | 6.0 | 1000 | 160 | -- | 37 | -- | 7.5 | -- | 6.0 |
| NOV. 20... | 1430 | 382 | 4.4 | 340 | 50 | -- | 27 | -- | 5.5 | -- | 4.5 |
| DEC. 17... | 1400 | 300 | 4.4 | 380 | 100 | -- | 35 | -- | 6.5 | -- | 5.0 |
| JAN. 21... | 1200 | 940 | 3.9 | 1200 | 80 | -- | 24 | -- | 4.8 | -- | 4.4 |
| FEB. 19... | 1300 | 224 | 4.2 | 560 | 120 | -- | 36 | -- | 6.4 | -- | 4.5 |
| MAR. 19... | 1400 | 492 | 3.5 | 550 | 60 | -- | 26 | -- | 5.0 | -- | 4.2 |
| APR. 22... | 1500 | 494 | 2.3 | 1100 | 120 | 25 | -- | 5.3 | -- | 3.8 | -- |
| MAY 21... | 1500 | 519 | 3.1 | 1200 | 190 | 27 | -- | 5.4 | -- | 4.0 | -- |
| JUNE 19... | 1430 | 124 | 4.2 | 1100 | 160 | 37 | -- | 7.0 | -- | 5.1 | -- |
| JULY 23... | 1500 | 55 | -- | 1000 | 270 | 49 | -- | 9.6 | -- | 6.2 | -- |
| AUG. 21... | 1200 | 43 | -- | 690 | 190 | 46 | -- | 8.8 | -- | 6.8 | -- |
| SEP. 18... | 1430 | 63 | -- | 1000 | 190 | 43 | -- | 8.7 | -- | 7.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | -- | 1.9 | 133 | 0 | 109 | 21 | 8.5 | -- | .2 | .55 | .00 |
| NOV. 20... | -- | 2.0 | 80 | 0 | 66 | 24 | 7.4 | -- | .2 | .62 | .00 |
| DEC. 17... | -- | 1.6 | 98 | 0 | 80 | 24 | 7.9 | -- | .3 | .91 | .01 |
| JAN. 21... | -- | 1.3 | 63 | 0 | 52 | 22 | 8.5 | -- | .1 | .97 | .03 |
| FEB. 19... | -- | 1.2 | 109 | 0 | 89 | 24 | 8.5 | -- | .1 | .91 | .01 |
| MAR. 19... | -- | 1.5 | 73 | 0 | 60 | 19 | 8.5 | -- | .0 | .92 | .00 |
| APR. 22... | 1.2 | -- | 83 | 0 | 68 | 18 | 6.9 | .2 | -- | .60 | .02 |
| MAY 21... | 1.3 | -- | 96 | 0 | 79 | 17 | 6.0 | .2 | -- | .43 | .01 |
| JUNE 19... | 1.0 | -- | 127 | 0 | 104 | 21 | 9.2 | .2 | -- | .66 | .02 |
| JULY 23... | 1.4 | -- | 149 | 0 | 122 | 29 | 10 | -- | -- | .46 | .01 |
| AUG. 21... | 1.2 | -- | 147 | 0 | 121 | 27 | 13 | -- | -- | .37 | .01 |
| SEP. 18... | 1.4 | -- | 146 | 0 | 120 | 21 | 12 | -- | -- | .47 | .01 |

## CONEWANGO CREEK BASIN

## 03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | .01 | .27 | .28 | .66 | .05 | -- | .02 | 154 | 190 | 145 |
| NOV. 20... | .03 | .14 | .17 | .79 | .04 | -- | .02 | 114 | 146 | 112 |
| DEC. 17... | .05 | .12 | .17 | .99 | .02 | -- | .02 | 133 | 149 | 110 |
| JAN. 21... | .11 | .26 | .37 | 1.4 | .07 | -- | .03 | 100 | 165 | 108 |
| FEB. 19... | .04 | .04 | .08 | 1.0 | .02 | -- | .01 | 139 | 154 | 123 |
| MAR. 19... | .10 | .11 | .21 | 1.1 | .04 | -- | .02 | 104 | 134 | 104 |
| APR. 22... | .24 | .10 | .34 | .66 | .04 | .02 | -- | -- | 132 | 122 |
| MAY 21... | .07 | .48 | .55 | .99 | .06 | .01 | -- | -- | 165 | 132 |
| JUNE 19... | .12 | .28 | .40 | 1.1 | .05 | .02 | -- | -- | 199 | 157 |
| JULY 23... | .24 | .00 | .19 | .66 | .06 | .01 | -- | -- | 239 | 185 |
| AUG. 21... | .11 | .24 | .35 | .73 | .04 | .01 | -- | -- | 224 | 198 |
| SEP. 18... | .15 | .22 | .37 | .85 | .08 | .02 | -- | -- | 213 | 188 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | 9 | 5 | 129 | 14 | 360 | 7.6 | 8.0 | -- | -- | 9.4 |
| NOV. 20... | 16 | 10 | 91 | 25 | 260 | 7.5 | 3.0 | -- | -- | 13.8 |
| DEC. 17... | 9 | 8 | 105 | 25 | 260 | 7.6 | .0 | -- | -- | 15.0 |
| JAN. 21... | 30 | 22 | 78 | 18 | 235 | 7.1 | .0 | -- | -- | 13.4 |
| FEB. 19... | 7 | 6 | 108 | 19 | 252 | 7.2 | .5 | -- | -- | 13.6 |
| MAR. 19... | 13 | 11 | 80 | 20 | 240 | 7.2 | .0 | -- | -- | 13.8 |
| APR. 22... | 24 | 15 | -- | -- | 300 | 7.1 | 6.0 | -- | -- | 12.0 |
| MAY 21... | 19 | 12 | -- | -- | 280 | 6.9 | 17.0 | -- | -- | 6.9 |
| JUNE 19... | 17 | 13 | -- | -- | 310 | 7.2 | 17.0 | -- | -- | 7.4 |
| JULY 23... | 21 | 18 | -- | -- | 370 | 7.2 | 20.0 | 1 | 10 | 8.7 |
| AUG. 21... | 8 | 6 | -- | -- | 390 | 7.7 | 21.0 | 2 | 8 | 9.3 |
| SEP. 18... | 14 | 10 | -- | -- | 365 | 7.4 | 16.0 | 2 | 9 | 9.5 |

CONTINUED NEXT PAGE

## OHIO RIVER BASIN

## CONEWANGO CREEK BASIN

### 03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>23... | 94 | 9 | 670 | 120 | -- | .0 | <1 | 10 | 1 | <.5 |
| NOV.<br>20... | 103 | 11 | 570 | 210 | -- | .0 | -- | -- | -- | -- |
| DEC.<br>17... | 103 | 9 | 2300 | -- | -- | .0 | -- | -- | -- | -- |
| JAN.<br>21... | 105 | 12 | 1100 | B1200 | -- | .0 | -- | -- | -- | -- |
| FEB.<br>19... | 108 | 4 | 850 | 66 | -- | .0 | -- | -- | -- | -- |
| MAR.<br>19... | 110 | 4 | 580 | B1600 | -- | .0 | -- | -- | -- | -- |
| APR.<br>22... | 97 | 12 | 1700 | B370 | -- | .0 | -- | -- | -- | -- |
| MAY<br>21... | 71 | 18 | 810 | 190 | -- | .0 | -- | -- | -- | -- |
| JUNE<br>19... | 74 | 13 | 2700 | 190 | -- | .0 | -- | -- | -- | -- |
| JULY<br>23... | 96 | 11 | B12000 | 81 | -- | -- | -- | -- | -- | -- |
| AUG.<br>21... | 103 | 13 | -- | -- | 2.8 | -- | 1 | 0 | 3 | <.5 |
| SEP.<br>18... | 96 | 13 | -- | -- | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## STREAMS TRIBUTARY TO LAKE ERIE

### 04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

**LOCATION.**--Lat 42°51'16", long 78°45'22", Erie County, at gaging station in Gardenville, 300 ft (91 m) downstream from bridge on Union Road, and 2 mi (3.2 km) upstream from Cayuga Creek.

**DRAINAGE AREA.**--144 mi$^2$ (373 km$^2$).

**PERIOD OF RECORD.**--Chemical analyses: October 1961 to September 1962, July 1966 to September 1974.
Water temperatures: October 1961 to September 1962.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | 1630 | 21 | 1.4 | 140 | 20 | -- | 56 | -- | 14 | -- | 12 |
| NOV. 20... | 1730 | 90 | 3.8 | 150 | 10 | -- | 55 | -- | 11 | -- | 14 |
| DEC. 17... | 1800 | 50 | 2.4 | 110 | 20 | -- | 58 | -- | 12 | -- | 15 |
| JAN. 22... | 1200 | 838 | 3.7 | 3200 | 90 | -- | 31 | -- | 5.8 | -- | 9.2 |
| FEB. 19... | 1730 | 160 | 3.0 | 170 | 20 | -- | 59 | -- | 12 | -- | 14 |
| MAR. 20... | 1700 | 171 | 3.6 | 290 | 10 | -- | 45 | -- | 8.7 | -- | 11 |
| APR. 22... | 1730 | 120 | .5 | 250 | 80 | 47 | -- | 9.5 | -- | 8.2 | -- |
| MAY 22... | 0930 | 116 | .4 | 470 | 400 | 52 | -- | 10 | -- | 8.6 | -- |
| JUNE 20... | 0900 | 53 | .6 | 240 | 40 | 53 | -- | 11 | -- | 9.5 | -- |
| JULY 24... | 1030 | 14 | -- | 230 | 20 | 43 | [illegible] | 14 | -- | 12 | -- |
| AUG. 21... | 1600 | 16 | -- | 140 | 30 | 33 | -- | 11 | -- | 11 | -- |
| SEP. 19... | 1000 | 21 | -- | 140 | 30 | 43 | -- | 12 | -- | 11 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 23... | -- | 2.8 | 188 | 0 | 154 | 49 | 19 | -- | .2 | .10 | .00 |
| NOV. 20... | -- | 3.4 | 145 | 0 | 119 | 67 | 23 | -- | .3 | .66 | .00 |
| DEC. 17... | -- | 3.0 | 166 | 0 | 136 | 67 | 25 | -- | .1 | .74 | .01 |
| JAN. 22... | -- | 2.2 | 70 | 0 | 57 | 36 | 18 | -- | .1 | 1.1 | .06 |
| FEB. 19... | -- | 1.8 | 161 | 0 | 132 | 48 | 26 | -- | .1 | 1.2 | .01 |
| MAR. 20... | -- | 2.1 | 118 | 0 | 97 | 42 | 22 | -- | .0 | 1.1 | .00 |
| APR. 22... | 1.8 | -- | 142 | 1 | 118 | 40 | 16 | .1 | -- | .97 | .02 |
| MAY 22... | 1.6 | -- | 145 | 0 | 119 | 37 | 14 | .1 | -- | .23 | .01 |
| JUNE 20... | 2.2 | -- | 163 | 0 | 134 | 32 | 17 | .2 | -- | .52 | .02 |
| JULY 24... | 2.4 | -- | 143 | 0 | 117 | 48 | 21 | -- | -- | .03 | .00 |
| AUG. 21... | 2.5 | -- | 100 | 0 | 82 | 44 | 20 | -- | -- | .02 | .00 |
| SEP. 19... | 1.9 | -- | 152 | 0 | 125 | 39 | 20 | -- | -- | .01 | .00 |

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## 04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) | TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L) | TOTAL NITRO- GEN (N) (MG/L) | TOTAL PHOS- PHORUS (P) (MG/L) | TOTAL ORTHO PHOS- PHORUS (P) (MG/L) | DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) | DIS- SOLVED SOLIDS (SUM OF CONST.- TUENTS) (MG/L) | TOTAL RESI- DUE (MG/L) | RESIDUE ON IGNI TION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 23... | .01 | .23 | .24 | .35 | .02 | -- | .00 | 247 | 238 | 168 |
| NOV. | | | | | | | | | | |
| 20... | .05 | .29 | .34 | 1.0 | .01 | -- | .00 | 249 | 286 | 231 |
| DEC. | | | | | | | | | | |
| 17... | .01 | .18 | .19 | .94 | .01 | -- | .00 | 264 | 300 | 266 |
| JAN. | | | | | | | | | | |
| 22... | .12 | .55 | .67 | 1.9 | .12 | -- | .03 | 151 | 237 | 206 |
| FEB. | | | | | | | | | | |
| 19... | .00 | .16 | .16 | 1.4 | .01 | -- | .00 | 243 | 270 | 216 |
| MAR. | | | | | | | | | | |
| 20... | .09 | .10 | .19 | 1.3 | .02 | -- | .01 | 193 | 230 | 187 |
| APR. | | | | | | | | | | |
| 22... | .15 | .06 | .21 | 1.2 | .02 | .01 | -- | -- | 219 | 194 |
| MAY | | | | | | | | | | |
| 22... | .07 | .26 | .33 | .57 | .01 | .00 | -- | -- | 271 | 210 |
| JUNE | | | | | | | | | | |
| 20... | .02 | .33 | .35 | .89 | .02 | .00 | -- | -- | 259 | 212 |
| JULY | | | | | | | | | | |
| 24... | .28 | .00 | .25 | .28 | .02 | .01 | -- | -- | 275 | 202 |
| AUG. | | | | | | | | | | |
| 21... | .14 | .27 | .41 | .43 | .02 | .01 | -- | -- | 207 | 174 |
| SEP. | | | | | | | | | | |
| 19... | .14 | .08 | .22 | .23 | .02 | .01 | -- | -- | 240 | 214 |

| DATE | TOTAL NON- FILT- RABLE RESIDUE (MG/L) | FIXED NON- FILT- RABLE RESIDUE (MG/L) | HARD- NESS (CA,MG) (MG/L) | NON- CAR- BONATE HARD- NESS (MG/L) | SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) | PH (UNITS) | TEMPER- ATURE (DEG C) | COLOR (PLAT- INUM- COBALT UNITS) | TUR- BID- ITY (JTU) | DIS- SOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 23... | 0 | 0 | 200 | 43 | 415 | 8.1 | 10.0 | -- | -- | 10.6 |
| NOV. | | | | | | | | | | |
| 20... | 6 | 5 | 180 | 64 | 420 | 8.0 | 2.0 | -- | -- | 14.1 |
| DEC. | | | | | | | | | | |
| 17... | 5 | 4 | 190 | 58 | 500 | 7.9 | .0 | -- | -- | 14.0 |
| JAN. | | | | | | | | | | |
| 22... | 89 | 78 | 100 | 44 | 300 | 7.6 | .0 | -- | -- | 14.6 |
| FEB. | | | | | | | | | | |
| 19... | 5 | 4 | 200 | 65 | 430 | 8.2 | .0 | -- | -- | 14.0 |
| MAR. | | | | | | | | | | |
| 20... | 8 | 7 | 150 | 51 | 339 | 8.0 | .0 | -- | -- | 14.4 |
| APR. | | | | | | | | | | |
| 22... | 4 | 2 | -- | -- | 560 | 8.6 | 6.0 | -- | -- | 13.0 |
| MAY | | | | | | | | | | |
| 22... | 4 | 3 | -- | -- | 420 | 7.9 | 17.5 | -- | -- | 9.6 |
| JUNE | | | | | | | | | | |
| 20... | 5 | 0 | -- | -- | 420 | 8.0 | 18.0 | -- | -- | 9.2 |
| JULY | | | | | | | | | | |
| 24... | 4 | 2 | -- | -- | 450 | 7.8 | 18.0 | 2 | 3 | 8.7 |
| AUG. | | | | | | | | | | |
| 21... | 2 | 0 | -- | -- | 350 | 8.3 | 31.0 | 3 | 4 | 10.0 |
| SEP. | | | | | | | | | | |
| 19... | 4 | 2 | -- | -- | 445 | 7.7 | 10.5 | 2 | 3 | 11.2 |

## STREAMS TRIBUTARY TO LAKE ERIE

## 04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 23... | 94 | 7 | 4300 | 3800 | -- | .0 | 0 | 10 | 1 | <.5 |
| NOV. | | | | | | | | | | |
| 20... | 105 | 11 | <1 | B180 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 17... | 96 | 11 | B300 | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 22... | 105 | 19 | 6500 | 2500 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 19... | 100 | 6 | B100 | B180 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 20... | 102 | 7 | B30 | B20 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 22... | 103 | 11 | 3700 | 530 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 22... | 100 | 11 | 7800 | B170 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 20... | 96 | 14 | 42000 | 1100 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 24... | 92 | 11 | 23000 | 1100 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 21... | 133 | 15 | -- | -- | 5.0 | -- | 0 | 10 | 4 | <.5 |
| SEP. | | | | | | | | | | |
| 19... | 100 | 8 | -- | -- | 3.3 | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04218030 TONAWANDA CREEK AT MILLERSPORT, N.Y.

LOCATION.--Lat 43°05'10", long 78°41'50", at Erie-Niagara County line, at bridge on State Highway 78, in Millersport, 0.5 mi (0.8 km) upstream from Mud Creek.

DRAINAGE AREA.--357 mi² (925 km²).

PERIOD OF RECORD.--October 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | 1330 | -- | -- | -- | -- | -- | -- | -- | 1.3 | .00 |
| DEC. 04... | 1330 | -- | -- | -- | -- | -- | -- | -- | .98 | .01 |
| FEB. 06... | 0900 | -- | -- | -- | -- | -- | -- | -- | 1.4 | .02 |
| APR. 30... | 1530 | -- | 590 | 50 | -- | -- | -- | -- | .53 | .01 |
| MAY 29... | 1100 | -- | -- | -- | -- | -- | -- | -- | .68 | .02 |
| JUNE 21... | 0930 | -- | -- | -- | -- | -- | -- | -- | .94 | .06 |
| AUG. 22... | 0900 | 2.8 | 810 | 110 | 219 | 0 | 180 | .3 | .27 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | -- | .13 | -- | 7.8 | 13.0 | 8 | 9.1 | 99 | -- |
| DEC. 04... | .25 | 1.2 | .03 | 541 | 7.9 | 3.5 | 15 | 13.2 | 117 | 3.8 |
| FEB. 06... | .54 | 1.9 | .06 | 591 | 7.6 | .0 | 9 | 15.0 | 102 | 1.2 |
| APR. 30... | .41 | .95 | .06 | 700 | 8.1 | 14.0 | 10 | 10.6 | 117 | 2.1 |
| MAY 29... | .51 | 1.2 | .09 | 770 | 7.8 | 16.0 | 20 | 8.7 | 89 | 4.4 |
| JUNE 21... | .82 | 1.8 | .19 | 595 | 7.6 | 20.0 | 60 | 8.1 | 88 | 1.9 |
| AUG. 22... | .40 | .67 | .09 | 1100 | 7.7 | 23.0 | 20 | 7.2 | 86 | 6.0 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | B8300 | B970 | -- | 27 | -- | -- | -- | 1 | -- |
| DEC. 04... | -- | 5300 | B130 | -- | 17 | -- | -- | -- | <1 | -- |
| FEB. 06... | -- | 340 | 290 | -- | 3.0 | -- | -- | -- | 1 | -- |
| APR. 30... | 4.7 | 2500 | 420 | B30 | 5.8 | .00 | -- | -- | <1 | 0 |
| MAY 29... | 10 | B2000 | 1100 | 92 | 6.6 | -- | -- | -- | 2 | -- |
| JUNE 21... | 10 | B172000 | B9900 | 5400 | 8.8 | -- | -- | -- | 3 | -- |
| AUG. 22... | 3.0 | -- | B130 | -- | 8.3 | .00 | .0 | 0 | 0 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

### 04218030 TONAWANDA CREEK AT MILLERSPORT, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | -- | -- | 2 | <.5 | -- | -- | -- | -- |
| DEC. 04... | -- | -- | -- | 2 | .7 | -- | -- | -- | -- |
| FEB. 06... | -- | -- | -- | 1 | -- | -- | -- | -- | -- |
| APR. 30... | 0 | 10 | 0 | 0 | <.5 | -- | 2 | 0 | -- |
| MAY 29... | 0 | 10 | 10 | 1 | <.5 | -- | -- | -- | -- |
| JUNE 21... | 1 | 20 | 10 | -- | -- | -- | -- | -- | -- |
| AUG. 22... | 0 | <10 | 0 | 6 | <.5 | 13 | <2 | -- | 3.2 |

### PESTICIDE ANALYSIS

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1100 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .03 | .00 | .02 |

| DATE | TIME | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1100 | 0 | 4.0 | 3.7 | .0 | 2.2 | .0 | .0 | .0 |

| DATE | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM. DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .0 | .0 | .0 | .0 | .0 | .0 | 190 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 22... | 0900 | <7.4 | 6.1 | 5.3 | 660 | <.5 | 1.1 | .9 | 19 |

## 04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.
(National Stream-Quality Accounting Network Station)

**LOCATION.**--Lat 43°15'40", long 79°03'47", Niagara County, on U.S. Coast Guard wharf at Old Fort Niagara, at mouth of Niagara River, and 1.0 mi (1.6 km) northwest of Youngstown.

**DRAINAGE AREA.**--265,000 mi² (686,350 km²)

**PERIOD OF RECORD.**--Chemical analyses: May 1973 to September 1974.

**REMARKS.**--Discharge is estimated on the basis of records for 04216000 Niagara River at Buffalo.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DISSOLVED SILICA (SIO2) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR. 23... | 0930 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY 15... | 1530 | .1 | 38 | 8.0 | 13 | 1.7 | 102 | 0 | 84 | 26 | 25 | .2 |
| JUNE 27... | 0900 | .3 | 38 | 8.3 | 11 | 1.5 | 111 | 0 | 91 | 30 | 28 | .2 |
| AUG. 13... | 1400 | .2 | 38 | 8.9 | 12 | 1.8 | 109 | 0 | 89 | 27 | 24 | .2 |
| SEP. 24... | 1400 | .3 | 38 | 8.8 | 13 | 1.6 | 111 | 0 | 91 | 21 | 27 | .1 |

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | SUSPENDED SEDIMENT (MG/L) | SUSPENDED SEDIMENT DISCHARGE (T/DAY) | SUS. SED. SIEVE DIAM. % FINER THAN .062 MM | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | TURBIDITY (JTU) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR. 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.6 |
| MAY 15... | .32 | .96 | .03 | 217 | 162 | 17 | 12600 | 87 | 130 | 44 | 10 | 3.5 |
| JUNE 27... | .29 | .66 | .03 | 202 | 172 | 4 | 2720 | 81 | 130 | 38 | 2 | 2.5 |
| AUG. 13... | .41 | .54 | .02 | 201 | 166 | 7 | 4570 | 77 | 130 | 42 | 2 | 3.9 |
| SEP. 24... | .34 | .45 | .02 | 196 | 165 | -- | -- | -- | 130 | 40 | 2 | -- |

| DATE | TIME | DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 24... | 1100 | 225000 | 300 | 8.1 | 15.0 | 10.8 | 105 | 3700 | 110 | B16 |
| NOV. 21... | 0900 | 222000 | 320 | 8.0 | 7.0 | 13.2 | 106 | 290 | 280 | 59 |
| DEC. 18... | 1500 | 224000 | 370 | 8.0 | 1.0 | 14.4 | 119 | B160 | -- | -- |
| JAN. 22... | 1500 | 239000 | 355 | 7.3 | .0 | 12.2 | 101 | 2600 | 680 | B330 |
| FEB. 20... | 1730 | 242000 | 420 | 7.2 | .0 | 15.2 | 104 | 200 | B115 | 68 |
| MAR. 20... | 1230 | 248000 | 360 | 7.5 | .0 | 14.8 | 101 | B220 | B200 | 49 |
| APR. 23... | 0930 | 267000 | 390 | 7.2 | 3.0 | -- | -- | 4400 | 550 | 160 |
| MAY 15... | 1530 | 274000 | 300 | 7.3 | 9.0 | -- | -- | -- | B100 | 46 |
| JUNE 27... | 0900 | 252000 | 310 | 7.5 | 14.0 | -- | -- | 19000 | B34 | B10 |
| JULY 24... | 0800 | 242000 | 410 | 7.4 | 15.0 | -- | -- | 22000 | 220 | 39 |
| AUG. 13... | 1400 | 242000 | 420 | 8.2 | 18.0 | -- | -- | -- | 26 | B3 |
| SEP. 24... | 1400 | 228000 | 380 | 7.2 | 16.0 | -- | -- | -- | B170 | B7 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ARSENIC (AS) (UG/L) | SUSPENDED ARSENIC (AS) (UG/L) | DISSOLVED ARSENIC (AS) (UG/L) | TOTAL CADMIUM (CD) (UG/L) | SUSPENDED CADMIUM (CD) (UG/L) | DISSOLVED CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | SUSPENDED CHROMIUM (CR) (UG/L) | DISSOLVED CHROMIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 07... | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 15... | 2 | -- | <1 | 0 | 0 | 0 | <10 | -- | 10 | 0 |
| JUNE | | | | | | | | | | |
| 27... | 5 | 5 | 0 | 110 | 74 | 36 | 10 | 10 | 0 | 0 |
| AUG. | | | | | | | | | | |
| 13... | 0 | 0 | <1 | 35 | 14 | 21 | 0 | -- | <10 | 0 |

| DATE | SUSPENDED COBALT (CO) (UG/L) | DISSOLVED COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) | SUSPENDED COPPER (CU) (UG/L) | DISSOLVED COPPER (CU) (UG/L) | TOTAL IRON (FE) (UG/L) | DISSOLVED IRON (FE) (UG/L) | TOTAL LEAD (PB) (UG/L) | SUSPENDED LEAD (PB) (UG/L) | DISSOLVED LEAD (PB) (US/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 07... | -- | -- | 10 | -- | -- | -- | -- | 2 | -- | -- |
| 15... | 0 | 0 | 10 | 10 | 0 | 290 | 90 | 0 | -- | 2 |
| JUNE | | | | | | | | | | |
| 27... | 0 | 0 | 10 | 10 | 0 | 140 | 40 | 13 | 13 | 0 |
| AUG. | | | | | | | | | | |
| 13... | 0 | 0 | 10 | 10 | 0 | 90 | 40 | 11 | 7 | 4 |

| DATE | TOTAL MANGANESE (MN) (UG/L) | SUSPENDED MANGANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL SELENIUM (SE) (UG/L) | SUSPENDED SELENIUM (SE) (UG/L) | DISSOLVED SELENIUM (SE) (UG/L) | TOTAL ZINC (ZN) (UG/L) | SUSPENDED ZINC (ZN) (UG/L) | DISSOLVED ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | |
| 07... | -- | -- | .7 | -- | -- | -- | -- | -- | -- |
| 15... | 20 | 10 | <.5 | 0 | 0 | 0 | 20 | 10 | 10 |
| JUNE | | | | | | | | | |
| 27... | 10 | 10 | <.5 | 2 | 0 | 2 | 30 | 10 | 20 |
| AUG. | | | | | | | | | |
| 13... | 40 | 40 | <.5 | 0 | 0 | 0 | 20 | 0 | 20 |

CONTINUED NEXT PAGE

## 04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

### CROSS-SECTION MEASUREMENTS

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C).

May 15, 1974 1300 to 1505 Hours

| Distance from left bank | 400 ft (122 m) | | 800 ft (244 m) | | 1200 ft (366 m) | |
|---|---|---|---|---|---|---|
| depth ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 1 | 280 | 8.0 | 290 | 11.0 | 295 | 11.0 |
| 10 3 | 310 | 7.0 | 300 | 7.0 | 305 | 10.0 |
| middepth | 310 | 7.0 | 310 | 7.0 | 300 | 7.0 |
| 60 18 | 305 | 7.0 | 310 | 7.0 | 300 | 7.0 |

June 27, 1974 0845 to 1042 Hours

| Distance from left bank | 400 ft (122 m) | | 800 ft (244 m) | | 1200 ft (366 m) | |
|---|---|---|---|---|---|---|
| depth ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 1 | 280 | 15.0 | 280 | 15.0 | 225 | 16.0 |
| 10 3 | 290 | 14.0 | 300 | 14.0 | 310 | 14.0 |
| middepth | 310 | 14.0 | 310 | 14.0 | 310 | 14.0 |
| 70 21 | 310 | 14.0 | 310 | 14.0 | 310 | 14.0 |

August 13, 1974 1230 to 1444 Hours

| Distance from left bank | 400 ft (122 m) | | 800 ft (244 m) | | 1200 ft (366 m) | |
|---|---|---|---|---|---|---|
| depth ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 1 | 420 | 19.0 | 420 | 20.0 | 392 | 22.0 |
| 10 3 | 420 | 19.0 | 420 | 19.0 | 406 | 19.0 |
| middepth | 420 | 19.0 | 420 | 19.0 | 420 | 19.0 |
| 60 18 | 420 | 19.0 | 420 | 19.0 | 420 | 19.0 |

September 24, 1974 1330 to 1427 Hours

| Distance from left bank | 400 ft (122 m) | | 800 ft (244 m) | | 1200 ft (366 m) | |
|---|---|---|---|---|---|---|
| depth ft m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 1 | 380 | 15.0 | 362 | 15.0 | 380 | 14.0 |
| 10 3 | 374 | 15.0 | 380 | 14.0 | 380 | 14.0 |
| middepth | 380 | 15.0 | 380 | 14.0 | 374 | 14.0 |
| 60 18 | 374 | 15.0 | 380 | 14.0 | 386 | 14.0 |

## 04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

### PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPOSITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPOSITION |
|---|---|---|---|---|---|---|---|
| May 8, 1973 | 1,300 | Fragilaria | 38 | June 21, 1973 | 300 | Oscillatoria<br>Chlamydomonadaceae | 54<br>18 |
| Aug. 22, 1973 | 1,700 | Anacystis | 60 | Sep. 11, 1973 | 2,900 | Anacystis | 59 |
| Oct. 24, 1973 | 980 | Oocystis<br>Fragilaria | 22<br>17 | Nov. 21, 1973 | 660 | Fragilaria<br>Tabellaria<br>Chlamydomonadaceae | 29<br>24<br>15 |
| Dec. 18, 1973 | 1,100 | Oscillatoria | 22 | Jan. 22, 1974 | 290 | Cyclotella<br>Tabellaria | 26<br>26 |
| Feb. 20, 1974 | 790 | Melosira<br>Lyngbya<br>Cyclotella | 21<br>19<br>16 | Mar. 20, 1974 | 1,800 | Lyngbya<br>Tabellaria | 48<br>15 |
| Apr. 23, 1974 | 550 | Tetrastrum<br>Asterionella<br>Ankistrodesmus<br>Tabellaria<br>Melosira<br>Cyclotella | 35<br>24<br>15<br>12<br>9<br>6 | May 15, 1974 | 660 | Melosira<br>Scenedesmus<br>Lyngbya<br>Cyclotella<br>Tetrastrum<br>Ankistrodesmus<br>Nitzschia<br>Glenodinium<br>Tabellaria<br>Staurastrum | 25<br>18<br>14<br>11<br>9<br>9<br>5<br>5<br>2<br>2 |
| June 27, 1974 | 2,100 | Cyclotella<br>Lyngbya<br>Coelastrum<br>Tetraedron<br>Navicula<br>Uroglenopsis | 56<br>31<br>12<br>2<br>1<br>1 | Aug. 13, 1974 | 3,600 | Sphaerocystis<br>Lyngbya<br>Fragilaria<br>Oscillatoria<br>Scenedesmus<br>Oocystis<br>Oedogonium<br>Dictyosphaerium<br>Cyclotella<br>Anabaena<br>Schroederia<br>Melosira<br>Surirella<br>Rhoicosphenia<br>Ceratium<br>Chodatella | 25<br>17<br>12<br>8<br>8<br>7<br>7<br>6<br>4<br>2<br>2<br>1<br><1<br><1<br><1<br><1 |
| Sep. 24, 1974 | 1,500 | Fragilaria<br>Oocystis<br>Pediastrum<br>Scenedesmus<br>Cyclotella<br>Chodatella | 77<br>9<br>8<br>4<br>2<br>1 | | | | |

### PERIPHYTON ANALYSES, AUGUST TO SEPTEMBER 1974

| DATE | UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M | UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M |
|---|---|---|
| Aug. 13 - Sep. 24 | .0 | .0 |

## 04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.

LOCATION.--Lat 43°15'09", long 78°41'52", Niagara County, at bridge on Jacques Road, 0.2 mi (0.3 km) upstream from unnamed tributary, and 2.5 mi (4.0 km) south of Newfane.

DRAINAGE AREA.--75.4 mi² (195.3 km²).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | 1230 | -- | -- | -- | -- | -- | -- | -- | 3.2 | .00 |
| DEC. 04... | 1230 | -- | -- | -- | -- | -- | -- | -- | 1.2 | .23 |
| FEB. 06... | 1130 | -- | -- | -- | -- | -- | -- | -- | 1.6 | .02 |
| APR. 30... | 1330 | -- | 1200 | 120 | -- | -- | -- | -- | .63 | .06 |
| MAY 29... | 1230 | -- | -- | -- | -- | -- | -- | -- | 1.1 | .15 |
| JUNE 20... | 1400 | -- | -- | -- | -- | -- | -- | -- | .85 | .15 |
| AUG. 22... | 1100 | 2.7 | 920 | 100 | 116 | 0 | 95 | .8 | .36 | .10 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | -- | .80 | 720 | 7.4 | 16.0 | 8 | 2.4 | 39 | -- |
| DEC. 04... | 1.1 | 2.5 | .39 | 800 | 7.6 | 7.0 | 15 | 9.4 | 85 | 2.6 |
| FEB. 06... | 2.5 | 4.1 | .19 | 740 | 6.7 | .0 | 7 | 14.5 | 108 | 3.6 |
| APR. 30... | 1.5 | 2.2 | .18 | 850 | 7.4 | 14.0 | 20 | 7.8 | 83 | 2.3 |
| MAY 29... | 1.8 | 3.0 | .25 | 760 | 7.3 | 15.0 | 20 | 5.6 | 55 | .3 |
| JUNE 20... | 1.4 | 2.4 | .20 | 790 | 6.9 | 19.0 | 20 | 4.2 | 46 | .7 |
| AUG. 22... | .47 | .93 | .21 | 660 | 7.0 | 23.0 | 7 | .8 | 9 | 6.0 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | B1600 | B40 | -- | 10 | -- | -- | -- | <1 | -- |
| DEC. 04... | -- | 510 | B20 | -- | 25 | -- | -- | -- | 1 | -- |
| FEB. 06... | -- | B100 | B10 | -- | 8.0 | -- | -- | -- | <1 | -- |
| APR. 30... | .0 | 1600 | 64 | B18 | 8.0 | .01 | -- | -- | 2 | 0 |
| MAY 29... | 1.1 | -- | B10000 | B3600 | 8.8 | -- | -- | -- | <1 | -- |
| JUNE 20... | 3.1 | B39000 | B5000 | 460 | 6.3 | -- | -- | -- | 2 | -- |
| AUG. 22... | 9.0 | -- | B970 | -- | 8.4 | .01 | .0 | 0 | 0 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELENIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANADIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | -- | -- | 120 | <.5 | -- | -- | -- | -- |
| DEC. 04... | -- | -- | -- | 53 | .9 | -- | -- | -- | -- |
| FEB. 06... | -- | -- | -- | 45 | -- | -- | -- | -- | -- |
| APR. 30... | 0 | 20 | 30 | 42 | <.5 | -- | 0 | 0 | -- |
| MAY 29... | 0 | 30 | 50 | 67 | <.5 | -- | -- | -- | -- |
| JUNE 20... | 0 | 20 | 30 | 33 | <.5 | -- | -- | -- | -- |
| AUG. 22... | 1 | 10 | 20 | 33 | <.5 | 90 | 0 | -- | 4.4 |

### PESTICIDE ANALYSIS

| DATE | TIME | ALDRIN (UG/L) | CHLORDANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DIAZINON (UG/L) | DIELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTACHLOR (UG/L) | HEPTACHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1230 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALATHION (UG/L) | METHYL PARATHION (UG/L) | METHYL TRITHION (UG/L) | PARATHION (UG/L) | PCB (UG/L) | TOXAPHENE (UG/L) | TRITHION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .24 | .00 | .01 |

| DATE | TIME | CHLORDANE IN BOTTOM DEPOSITS (UG/KG) | DDD IN BOTTOM DEPOSITS (UG/KG) | DDE IN BOTTOM DEPOSITS (UG/KG) | DDT IN BOTTOM DEPOSITS (UG/KG) | DIAZINON IN BOTTOM DEPOSITS (UG/KG) | DIELDRIN IN BOTTOM DEPOSITS (UG/KG) | ENDRIN IN BOTTOM DEPOSITS (UG/KG) | ETHION IN BOTTOM DEPOSITS (UG/KG) | HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1230 | 0 | 5.5 | 1.6 | 6.2 | .0 | 2.7 | .0 | .0 | .0 |

| DATE | HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG) | LINDANE IN BOTTOM DEPOSITS (UG/KG) | MALATHION IN BOTTOM DEPOSITS (UG/KG) | METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG) | METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG) | PARATHION IN BOTTOM DEPOSITS (UG/KG) | PCB IN BOTTOM DEPOSITS (UG/KG) | TOXAPHENE IN BOTTOM DEPOSITS (UG/KG) | TRITHION IN BOTTOM DEPOSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .0 | .0 | .0 | .0 | .0 | .0 | 450 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DISSOLVED GROSS ALPHA AS U-NAT. (UG/L) | DISSOLVED GROSS BETA AS CS-137 (PC/L) | DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILTRABLE RESIDUE (MG/L) | SUSPENDED GROSS ALPHA AS U-NAT. (UG/L) | SUSPENDED GROSS BETA AS CS-137 (PC/L) | SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 22... | 1100 | <3.9 | 14 | 12 | 360 | .4 | .8 | .7 | 14 |

## 04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.

LOCATION.--Lat 43°21'38", long 78°15'54", Orleans County, at bridge on State Highway 18 (Roosevelt Highway) in Kuckville and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 09... | 1030 | -- | -- | -- | -- | -- | -- | -- | .35 | .01 |
| DEC. | | | | | | | | | | |
| 05... | 1100 | -- | -- | -- | -- | -- | -- | -- | 1.9 | .01 |
| FEB. | | | | | | | | | | |
| 05... | 1630 | -- | -- | -- | -- | -- | -- | -- | 2.0 | .02 |
| APR. | | | | | | | | | | |
| 29... | 1730 | -- | 440 | 100 | -- | -- | -- | -- | .65 | .03 |
| MAY | | | | | | | | | | |
| 29... | 1430 | -- | -- | -- | -- | -- | -- | -- | .97 | .02 |
| JUNE | | | | | | | | | | |
| 20... | 1600 | -- | -- | -- | -- | -- | -- | -- | 1.7 | .14 |
| AUG. | | | | | | | | | | |
| 22... | 1400 | .4 | 70 | 30 | 128 | 0 | 105 | .2 | .27 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 09... | .25 | .61 | .09 | 430 | 7.8 | 14.0 | 2 | 8.2 | 85 | 4.3 |
| DEC. | | | | | | | | | | |
| 05... | 1.6 | 3.5 | .09 | 840 | 7.9 | 6.0 | 5 | 11.7 | 100 | .0 |
| FEB. | | | | | | | | | | |
| 05... | 7.0 | 9.0 | .04 | 582 | 7.5 | .0 | 4 | 16.0 | 109 | 2.3 |
| APR. | | | | | | | | | | |
| 29... | .86 | 1.5 | .05 | 700 | 7.9 | 15.0 | 5 | 10.5 | 105 | 11 |
| MAY | | | | | | | | | | |
| 29... | .73 | 1.7 | .06 | 600 | 8.4 | 15.0 | 6 | 7.8 | 76 | .8 |
| JUNE | | | | | | | | | | |
| 20... | .84 | 2.6 | .09 | 620 | 7.7 | 20.0 | 4 | 7.2 | 80 | .1 |
| AUG. | | | | | | | | | | |
| 22... | .24 | .51 | .09 | 485 | 6.5 | 24.0 | 2 | 9.0 | 106 | 23 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 09... | -- | 3900 | 890 | -- | 4.8 | -- | -- | -- | 24 | -- |
| DEC. | | | | | | | | | | |
| 05... | -- | 25000 | 1400 | -- | 19 | -- | -- | -- | 30 | -- |
| FEB. | | | | | | | | | | |
| 05... | -- | 2500 | 2400 | -- | 6.0 | -- | -- | -- | 0 | -- |
| APR. | | | | | | | | | | |
| 29... | 21 | 3100 | 425 | 79 | 8.0 | .00 | -- | -- | 10 | 0 |
| MAY | | | | | | | | | | |
| 29... | 1.6 | 6800 | 800 | 200 | 9.5 | -- | -- | -- | 24 | -- |
| JUNE | | | | | | | | | | |
| 20... | 2.5 | 17000 | 2300 | 1000 | 6.8 | -- | -- | -- | 20 | -- |
| AUG. | | | | | | | | | | |
| 22... | 13 | -- | 63 | -- | 3.6 | .00 | .0 | 0 | 35 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 09... | -- | -- | -- | 2 | <.5 | -- | -- | -- | -- |
| DEC. 05... | -- | -- | -- | 1 | .7 | -- | -- | -- | -- |
| FEB. 05... | -- | -- | -- | 0 | <.5 | -- | -- | -- | -- |
| APR. 29... | 0 | <10 | 10 | 2 | <.5 | -- | 2 | 0 | -- |
| MAY 29... | 0 | 10 | 10 | 1 | <.5 | -- | -- | -- | -- |
| JUNE 20... | 0 | 10 | 0 | 1 | <.5 | -- | -- | -- | -- |
| AUG. 22... | 0 | 0 | 0 | 2 | <.5 | 9 | <2 | -- | 1.9 |

## PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1430 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .01 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1430 | .0 | 0 | 7.0 | 8.7 | 7.3 | .0 | 1.2 | .0 | .0 |
| AUG. 22... | 1400 | .0 | 0 | 4.9 | 9.9 | 5.6 | .0 | .7 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |
| AUG. 22... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3 | 0 | .0 |

## RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 22... | 1400 | <2.9 | 6.2 | 5.1 | 260 | <.4 | <.4 | <.4 | 2 |

## 04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.—Lat 43°06'02", long 77°52'57", Monroe County, at gaging station at east end of Carrol Street in Churchville, 100 ft (30 m) downstream from main-line tracks of Penn-Central Transportation Co., and 0.3 mi (0.5 km) downstream from Black Creek Dam.

DRAINAGE AREA.—123 mi$^2$ (319 km$^2$).

PERIOD OF RECORD.—Chemical analyses: October 1961 to September 1962, August 1966 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | 1500 | 13 | 2.1 | 70 | 20 | -- | 210 | -- | 45 | -- | 27 |
| NOV. | | | | | | | | | | | |
| 21... | 1300 | 47 | 7.1 | 100 | 30 | -- | 170 | -- | 37 | -- | 24 |
| DEC. | | | | | | | | | | | |
| 19... | 1030 | 47 | 6.5 | 110 | 30 | -- | 140 | -- | 36 | -- | 22 |
| JAN. | | | | | | | | | | | |
| 23... | 1030 | 620 | 4.8 | 560 | 50 | -- | 70 | -- | 17 | -- | 15 |
| FEB. | | | | | | | | | | | |
| 21... | 1200 | 110 | 4.7 | 100 | 10 | -- | 140 | -- | 35 | -- | 21 |
| MAR. | | | | | | | | | | | |
| 21... | 1200 | 249 | 3.7 | 120 | 10 | -- | 100 | -- | 27 | -- | 20 |
| APR. | | | | | | | | | | | |
| 23... | 1330 | 149 | .9 | 230 | 40 | 110 | -- | 28 | -- | 17 | -- |
| MAY | | | | | | | | | | | |
| 22... | 1230 | 138 | 2.9 | 280 | 50 | 100 | -- | 26 | -- | 16 | -- |
| JUNE | | | | | | | | | | | |
| 21... | 1230 | 120 | 5.5 | 170 | 40 | 140 | -- | 33 | -- | 19 | -- |
| JULY | | | | | | | | | | | |
| 24... | 1230 | 30 | -- | 750 | 30 | 140 | -- | 36 | -- | 24 | -- |
| AUG. | | | | | | | | | | | |
| 23... | 1330 | 16 | -- | 40 | 50 | 160 | -- | 30 | -- | 24 | -- |
| SEP. | | | | | | | | | | | |
| 19... | 1300 | 27 | -- | 60 | 30 | 160 | -- | 30 | -- | 23 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | -- | 3.8 | 191 | 0 | 157 | 460 | 60 | -- | .5 | .19 | .01 |
| NOV. | | | | | | | | | | | |
| 21... | -- | 4.5 | 216 | 0 | 177 | 320 | 52 | -- | .3 | 1.2 | .00 |
| DEC. | | | | | | | | | | | |
| 19... | -- | 2.9 | 254 | 0 | 208 | 260 | 47 | -- | .6 | 1.9 | .01 |
| JAN. | | | | | | | | | | | |
| 23... | -- | 2.5 | 157 | 0 | 129 | 110 | 31 | -- | .2 | 1.7 | .05 |
| FEB. | | | | | | | | | | | |
| 21... | -- | 2.3 | 272 | 0 | 223 | 230 | 47 | -- | .7 | 2.3 | .01 |
| MAR. | | | | | | | | | | | |
| 21... | -- | 2.4 | 228 | 0 | 187 | 150 | 42 | -- | .0 | 1.8 | .00 |
| APR. | | | | | | | | | | | |
| 23... | 2.4 | -- | 256 | 0 | 210 | 170 | 40 | .2 | -- | 1.6 | .03 |
| MAY | | | | | | | | | | | |
| 22... | 2.0 | -- | 252 | 0 | 207 | 130 | 30 | .3 | -- | .58 | .01 |
| JUNE | | | | | | | | | | | |
| 21... | 1.7 | -- | 275 | 0 | 226 | 240 | 38 | .3 | -- | .81 | .03 |
| JULY | | | | | | | | | | | |
| 24... | 2.3 | -- | 177 | 0 | 145 | 300 | 48 | -- | -- | .41 | .08 |
| AUG. | | | | | | | | | | | |
| 23... | 1.9 | -- | 184 | 0 | 151 | 300 | 55 | -- | -- | .18 | .00 |
| SEP. | | | | | | | | | | | |
| 19... | 2.0 | -- | 190 | 0 | 156 | 290 | 53 | -- | -- | .25 | .00 |

## 04231000 BLACK CREEK AT CHURCHVILLE, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .03 | .32 | .35 | .55 | .04 | -- | .03 | 903 | 1010 | 946 |
| NOV. 21... | .05 | .27 | .32 | 1.5 | .02 | -- | .01 | 721 | 876 | 820 |
| DEC. 19... | .05 | .40 | .45 | 2.3 | .02 | -- | .01 | 640 | 744 | 638 |
| JAN. 23... | .10 | .44 | .54 | 2.3 | .06 | -- | .03 | 328 | 413 | 272 |
| FEB. 21... | .02 | .35 | .37 | 2.7 | .03 | -- | .02 | 615 | 695 | 557 |
| MAR. 21... | .11 | .28 | .39 | 2.2 | .03 | -- | .01 | 457 | 534 | 435 |
| APR. 23... | .25 | .22 | .47 | 2.1 | .02 | .01 | -- | -- | 1140 | 986 |
| MAY 22... | .07 | .64 | .71 | 1.3 | .04 | .01 | -- | -- | 562 | 425 |
| JUNE 21... | .07 | .60 | .67 | 1.5 | .04 | .01 | -- | -- | 742 | 570 |
| JULY 24... | .40 | .23 | .63 | 1.1 | .08 | .03 | -- | -- | 838 | 584 |
| AUG. 23... | .47 | .00 | .35 | .53 | .03 | .01 | -- | -- | 856 | 650 |
| SEP. 19... | .17 | .20 | .37 | .62 | .02 | .01 | -- | -- | 740 | 626 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 0 | 0 | 689 | 530 | 1600 | 8.5 | 6.0 | -- | -- | 11.2 |
| NOV. 21... | 5 | 0 | 572 | 400 | 1300 | 8.0 | 5.0 | -- | -- | 11.2 |
| DEC. 19... | 5 | 5 | 473 | 270 | 1100 | 7.7 | .0 | -- | -- | 14.2 |
| JAN. 23... | 10 | 4 | 230 | 100 | 551 | 7.8 | .0 | -- | -- | 13.8 |
| FEB. 21... | 0 | 0 | 490 | 270 | 933 | 7.7 | .0 | -- | -- | 13.2 |
| MAR. 21... | 4 | 4 | 346 | 160 | 754 | 8.0 | .0 | -- | -- | 13.8 |
| APR. 23... | 4 | 4 | -- | -- | 1400 | 8.0 | 5.0 | -- | -- | 11.8 |
| MAY 22... | 7 | 5 | -- | -- | 930 | 7.7 | 18.0 | -- | -- | 9.2 |
| JUNE 21... | 3 | 1 | -- | -- | 1200 | 8.0 | 19.0 | -- | -- | 8.9 |
| JULY 24... | 26 | 21 | -- | -- | 1300 | 7.6 | 19.0 | 4 | 20 | 8.6 |
| AUG. 23... | 2 | 0 | -- | -- | 1300 | 8.0 | 21.0 | 6 | 4 | 8.5 |
| SEP. 19... | 2 | 1 | -- | -- | 1200 | 7.7 | 17.0 | 3 | 2 | 11.4 |

CONTINUED NEXT PAGE

### 04231000 BLACK CREEK AT CHURCHVILLE, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 18... | 97 | 12 | 2700 | 520 | -- | .0 | 1 | 10 | 5 | <.5 |
| NOV. | | | | | | | | | | |
| 21... | 97 | 18 | 3200 | 530 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 19... | 100 | 18 | 2800 | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 23... | 113 | 15 | 3000 | 860 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 21... | 108 | 12 | B1400 | 470 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 21... | 112 | 13 | 5900 | 890 | -- | .0 | -- | 0 | 4 | -- |
| APR. | | | | | | | | | | |
| 23... | 94 | 17 | 5200 | 220 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 22... | 97 | 27 | 5200 | 860 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 21... | 97 | 23 | 37000 | 400 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 24... | 91 | 21 | B90000 | B20000 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 23... | 89 | 15 | -- | -- | 4.2 | -- | 2 | 10 | 0 | <.5 |
| SEP. | | | | | | | | | | |
| 19... | 124 | 14 | -- | -- | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04232600 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, at gaging station on right bank, 40 ft (12 m) downstream from plant 5 of Rochester Gas and Electric Corporation in Rochester, 100 ft (30 m) upstream from bridge on Driving Park Avenue and 6.1 mi (9.8 km) upstream from mouth.

DRAINAGE AREA.--2,457 mi² (6,364 km²).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955.
Water temperatures: October 1954 to September 1974. Prior to October 1967, published as "at Driving Park Avenue".

EXTREMES, 1973-74:
Water temperatures: Maximum, 27.0°C Aug. 24; minimum, freezing point on Mar. 19.

Period of record:
Water temperatures: Maximum, 30.5°C Aug. 18, 1965; minimum, (1954-64, 1966-74) freezing point on many days during most years.

REMARKS.--No record Apr. 19-22. Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature records furnished by the Rochester Gas and Electric Corporation.

### CHEMICAL ANALYSES

| DATE | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|
| DEC. 10... | -- | E2410 | 0 | 10 | 5 | <.5 |
| JUNE 05... | 1215 | 1050 | 1 | 10 | 7 | 2.6 |
| SEP. 19... | 1330 | 451 | 2 | 10 | 5 | .7 |

### TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO SEPTEMBER 1974

(ONCE DAILY MEASUREMENT AT 1030)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19.0 | 11.0 | 7.0 | 1.0 | 3.0 | 1.5 | 2.0 | 14.5 | 17.0 | 20.0 | 23.5 | 23.0 |
| 2 | 18.0 | 10.5 | 6.0 | 0.5 | 1.5 | 3.0 | 3.5 | 15.5 | 18.0 | 20.5 | 24.0 | 22.0 |
| 3 | 18.5 | 9.5 | 5.5 | 0.5 | 1.5 | 4.0 | 3.5 | 15.0 | 19.0 | 21.5 | 24.0 | 20.0 |
| 4 | 18.5 | 9.0 | 5.5 | 0.5 | 1.0 | 4.5 | 7.0 | 13.0 | 19.0 | 23.0 | 23.5 | 19.5 |
| 5 | 18.5 | 9.0 | 7.0 | 0.5 | 0.5 | 5.5 | 9.0 | 12.0 | 20.0 | 23.5 | 23.0 | 18.5 |
| 6 | 17.0 | 7.0 | 6.5 | 0.5 | 0.5 | 5.5 | 7.0 | 12.0 | 21.0 | 23.0 | 22.0 | 18.5 |
| 7 | 17.0 | 7.0 | 5.5 | 0.5 | 1.5 | 6.0 | 5.5 | 10.0 | 21.0 | 24.0 | 22.0 | 18.0 |
| 8 | 17.0 | 6.5 | 6.0 | 0.5 | 1.0 | 5.5 | 6.0 | 10.0 | 21.5 | 24.0 | 23.5 | 18.0 |
| 9 | 17.0 | 6.5 | 5.5 | 1.5 | 1.0 | 5.0 | 5.5 | 10.0 | 22.0 | 26.0 | 24.0 | 19.0 |
| 10 | 16.5 | 6.5 | 6.0 | 1.0 | 1.0 | 5.0 | 5.5 | 10.0 | 23.5 | 26.5 | 23.5 | 19.5 |
| 11 | 16.5 | 5.5 | 5.5 | 1.0 | 1.0 | 5.0 | 6.0 | 10.0 | 22.0 | 25.5 | 24.0 | 20.0 |
| 12 | 16.5 | 5.5 | 5.0 | 0.5 | 1.0 | 4.5 | 6.0 | 11.0 | 21.5 | 24.5 | 24.0 | 20.5 |
| 13 | 16.5 | 5.5 | 3.0 | 0.5 | 1.0 | 4.5 | 9.0 | 11.0 | 20.5 | 24.5 | 24.5 | 20.5 |
| 14 | 16.5 | 6.0 | 2.0 | 1.0 | 1.0 | 3.5 | 6.5 | 12.0 | 21.0 | 25.0 | 24.5 | 20.5 |
| 15 | 16.5 | 7.0 | 1.5 | 0.5 | 0.5 | 3.5 | 8.0 | 13.0 | 21.5 | 25.5 | 24.5 | 20.0 |
| 16 | 17.0 | 7.0 | 1.0 | 1.0 | 0.5 | 4.0 | 7.0 | 13.0 | 20.5 | 24.5 | 25.0 | 20.0 |
| 17 | 15.0 | 7.0 | 1.0 | 0.5 | 0.5 | 1.5 | 8.5 | 14.5 | 20.0 | 24.5 | 25.5 | 20.0 |
| 18 | 14.0 | 6.0 | 1.0 | 0.5 | 0.5 | 1.0 | 9.5 | 15.0 | 20.0 | 24.0 | 25.0 | 18.5 |
| 19 | 13.5 | 6.0 | 0.5 | 1.0 | 1.0 | 0.0 | --- | 16.0 | 19.0 | 24.5 | 24.5 | 19.0 |
| 20 | 14.5 | 5.5 | 1.0 | 0.5 | 1.0 | 1.5 | --- | 16.0 | 19.5 | 24.5 | 25.0 | 20.0 |
| 21 | 14.0 | 6.0 | 1.0 | 1.0 | 1.5 | 0.5 | --- | 16.0 | 19.5 | 24.5 | 24.5 | 19.0 |
| 22 | 15.5 | 6.5 | 1.0 | 0.5 | 2.0 | 1.5 | --- | 16.0 | 19.5 | 24.5 | 25.5 | 18.5 |
| 23 | 15.0 | 6.5 | 0.5 | 1.0 | 1.0 | 3.5 | 12.0 | 18.5 | 19.5 | 24.5 | 26.5 | 18.5 |
| 24 | 15.5 | 7.0 | 0.5 | 0.5 | 1.0 | 3.0 | 11.0 | 18.5 | 20.0 | 24.5 | 27.0 | 15.5 |
| 25 | 16.0 | 7.0 | 1.0 | 1.0 | 1.0 | 1.5 | 9.5 | 17.0 | 20.0 | 24.0 | 26.5 | 14.5 |
| 26 | 15.5 | 6.5 | 1.0 | 1.0 | 1.0 | 3.5 | 9.5 | 17.0 | 20.0 | 23.5 | 25.0 | 13.5 |
| 27 | 14.0 | 8.0 | 1.5 | 2.0 | 1.0 | 2.0 | 9.5 | 16.0 | 19.5 | 23.5 | 26.5 | 14.0 |
| 28 | 13.0 | 8.5 | 1.0 | 3.5 | 1.5 | 3.0 | 11.0 | 16.0 | 19.5 | 23.5 | 25.0 | 14.5 |
| 29 | 12.0 | 8.5 | 1.0 | 2.0 | --- | 3.5 | 14.5 | 16.0 | 20.0 | 23.5 | 24.0 | 14.5 |
| 30 | 12.0 | 8.0 | 1.0 | 2.0 | --- | 3.5 | 15.5 | 15.5 | 20.0 | 23.0 | 23.5 | 15.0 |
| 31 | 11.5 | --- | 1.0 | 3.0 | --- | 3.0 | --- | 16.5 | --- | 23.0 | 23.5 | --- |
| AVERAGE | 16.0 | 7.5 | 3.0 | 1.0 | 1.0 | 3.5 | 8.0 | 14.0 | 20.0 | 24.0 | 24.5 | 18.5 |

E Estimated value.

## 04232006 GENESEE RIVER AT CHARLOTTE DOCKS, AT ROCHESTER, N.Y.
## (NATIONAL STREAM QUALITY ACCOUNTING NETWORK STATION)

**LOCATION.**--Lat 43°13'26", long 77°36'59", Monroe County, at Charlotte Docks, at the Rochester Cement Corporation, in Rochester, 0.4 mi (0.6 km) upstream from Rattlesnake Point, 1.6 mi (2.6 km) upstream from Stutson Street Bridge, and 3.9 mi (6.3 km) downstream from gaging station (04232000) at Rochester.

**DRAINAGE AREA.**--2,457 mi$^2$ (6,364 km$^2$) at gaging station.

**PERIOD OF RECORD.**--Chemical analyses: May to September 1974.

**REMARKS.**--Additional water quality data available from New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, MAY TO SEPTEMBER 1974

| DATE | TIME | DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | |
| 16... | 1100 | E7450 | 3.1 | 35 | 7.6 | 14 | 1.9 | 93 | 0 | 76 | 68 |
| JUNE | | | | | | | | | | | |
| 26... | 1230 | E1690 | 5.0 | 77 | 15 | 34 | 3.8 | 197 | 0 | 162 | 100 |
| AUG. | | | | | | | | | | | |
| 14... | 1300 | E705 | 1.7 | 65 | 13 | 34 | 3.5 | 138 | 0 | 113 | 100 |
| SEP. | | | | | | | | | | | |
| 25... | 1100 | E1370 | 3.2 | 90 | 19 | 80 | 3.8 | 175 | 0 | 144 | 150 |

| DATE | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SUS-PENDED SEDI-MENT (MG/L) | SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) | SUS. SED. SIEVE DIAM. % FINER THAN .062 MM |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 16... | 18 | 7.4 | .70 | 1.2 | .13 | 190 | 182 | 388 | E7800 | 93 |
| JUNE | | | | | | | | | | |
| 26... | 58 | .2 | 1.2 | 2.5 | .18 | 427 | 388 | 57 | E260 | 98 |
| AUG. | | | | | | | | | | |
| 14... | 56 | .2 | 1.6 | 1.9 | .25 | 398 | 342 | 149 | E280 | 66 |
| SEP. | | | | | | | | | | |
| 25... | 110 | .1 | 1.3 | 1.9 | .21 | 618 | 542 | 38 | E140 | 94 |

| DATE | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 16... | 120 | 45 | 290 | 7.4 | 10.5 | 200 | -- | 680 | 330 | -- |
| JUNE | | | | | | | | | | |
| 26... | 250 | 92 | 900 | 7.8 | 16.0 | 40 | B86000 | 720 | B30 | 8.2 |
| AUG. | | | | | | | | | | |
| 14... | 220 | 100 | 740 | 7.7 | 22.0 | 30 | -- | 210 | B11 | 7.6 |
| SEP. | | | | | | | | | | |
| 25... | 300 | 160 | 1200 | 7.3 | 15.0 | 20 | -- | B960 | B140 | -- |

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | SUS-PENDED ARSENIC (AS) (UG/L) | DIS-SOLVED ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | SUS-PENDED CAD-MIUM (CD) (UG/L) | DIS-SOLVED CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | SUS-PENDED CHRO-MIUM (CR) (UG/L) | DIS-SOLVED CHRO-MIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC. | | | | | | | | | | | |
| 10... | -- | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 16... | 1100 | 7 | 5 | 2 | 0 | 0 | 1 | 10 | -- | <10 | 2 |
| JUNE | | | | | | | | | | | |
| 05... | 1147 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26... | 1230 | 6 | 1 | 5 | 4 | 1 | 3 | 20 | 20 | 0 | 1 |
| AUG. | | | | | | | | | | | |
| 14... | 1300 | 2 | -- | <1 | 6 | 0 | 6 | 10 | 10 | 0 | 0 |
| SEP. | | | | | | | | | | | |
| 19... | 1230 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

### 04232006 GENESSEE RIVER AT CHARLOTTE DOCKS, AT ROCHESTER, N.Y.--Continued
(NATIONAL STREAM QUALITY ACCOUNTING NETWORK STATION)

### CHEMICAL ANALYSES MAY TO SEPTEMBER 1974

| DATE | SUS-PENDED COBALT (CO) (UG/L) | DIS-SOLVED COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) | SUS-PENDED COPPER (CU) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | TOTAL IRON (FE) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | TOTAL LEAD (PB) (UG/L) | SUS-PENDED LEAD (PB) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DEC. 10... | -- | -- | 10 | -- | -- | -- | -- | 7 | -- | -- | -- |
| MAY 16... | 1 | 1 | 10 | 10 | 0 | 6800 | 200 | 14 | 11 | 3 | 210 |
| JUNE 05... | -- | -- | 20 | -- | -- | -- | -- | 7 | -- | -- | -- |
| 26... | 1 | 0 | 30 | 20 | 10 | 2700 | 80 | 23 | 18 | 5 | 120 |
| AUG. 14... | 0 | 0 | 20 | 10 | 10 | 1700 | 120 | 16 | 11 | 5 | 190 |
| SEP. 19... | -- | -- | 10 | -- | -- | -- | -- | 11 | -- | -- | -- |

| DATE | SUS-PENDED MAN-GANESE (MN) (UG/L) | DIS-SOLVED MAN-GANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | SUS-PENDED SELE-NIUM (SE) (UG/L) | DIS-SOLVED SELE-NIUM (SE) (UG/L) | TOTAL ZINC (ZN) (UG/L) | SUS-PENDED ZINC (ZN) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| DEC. 10... | -- | -- | 2.4 | -- | -- | -- | -- | -- | -- | -- |
| MAY 16... | 190 | 20 | <.5 | <.5 | 0 | 0 | 0 | 50 | 30 | 20 |
| JUNE 05... | -- | -- | <.5 | -- | -- | -- | -- | -- | -- | -- |
| 26... | 30 | 90 | <.5 | <.5 | 2 | 0 | 2 | 130 | 100 | 30 |
| AUG. 14... | 100 | 90 | <.5 | <.5 | <2 | -- | <2 | 70 | 50 | 20 |
| SEP. 19... | -- | -- | <.5 | -- | -- | -- | -- | -- | -- | -- |

### CROSS-SECTION MEASUREMENTS

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C).

May 16, 1974 0900 to 1010 Hours

| Distance from left bank | | 90 ft (27 m) | | 180 ft (55 m) | | 270 ft (82 m) | |
|---|---|---|---|---|---|---|---|
| depth ft | m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 | 1 | 300 | 11.0 | 290 | 10.0 | 290 | 11.0 |
| 10 | 3 | 310 | 10.0 | 260 | 11.0 | 300 | 11.0 |
| 18 | 5 | 310 | 10.0 | 310 | 11.0 | 300 | 11.0 |

June 26, 1974 1200 to 1310 Hours

| Distance from left bank | | 90 ft (27 m) | | 180 ft (55 m) | | 270 ft (82 m) | |
|---|---|---|---|---|---|---|---|
| depth ft | m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 | 1 | 580 | 17.0 | 600 | 17.0 | 550 | 18.0 |
| 10 | 3 | 580 | 18.0 | 590 | 17.0 | 560 | 18.0 |
| 15 | 4 | 590 | 18.0 | 590 | 18.0 | 580 | 17.0 |

August 14, 1974 1300 to 1404 Hours

| Distance from left bank | | 90 ft (27 m) | | 180 ft (55 m) | | 270 ft (82 m) | |
|---|---|---|---|---|---|---|---|
| depth ft | m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 | 1 | 752 | 23.0 | 740 | 23.0 | 740 | 23.0 |
| 10 | 3 | 740 | 23.0 | 740 | 23.0 | 726 | 22.0 |
| 16 | 5 | 686 | 23.0 | 713 | 21.0 | 686 | 21.0 |

September 25, 1974 1100 to 1224 Hours

| Distance from left bank | | 90 ft (27 m) | | 180 ft (55 m) | | 270 ft (82 m) | |
|---|---|---|---|---|---|---|---|
| depth ft | m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 3 | 1 | 1200 | 14.0 | 1200 | 14.0 | 1200 | 15.0 |
| 10 | 3 | 1200 | 14.0 | 1200 | 14.0 | 1260 | 14.0 |
| 13 | 4 | 1200 | 14.0 | 1200 | 14.0 | 1260 | 14.0 |

CONTINUED NEXT PAGE

## STREAMS TRIBUTARY TO LAKE ONTARIO

## 04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, N.Y.--Continued

### PHYTOPLANKTON ANALYSES, MAY TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|---|---|---|---|
| May 16 1974 | 18,000 | Cyclotella | 48 | June 26 1974 | 5,800 | Cyclotella | 70 |
| | | Navicula | 10 | | | Scenedesmus | 9 |
| | | Synedra | 10 | | | Navicula | 6 |
| | | Cymbella | 8 | | | Nitzschia | 4 |
| | | Anacystis | 6 | | | Tetrastrum | 4 |
| | | Gomphonema | 5 | | | Cocconeis | 3 |
| | | Surirella | 3 | | | Melosira | 2 |
| | | Gyrosigma | 3 | | | Rhoicosphenia | 1 |
| | | Asterionella | 3 | | | | |
| | | Diatoma | 3 | | | | |
| | | Nitzschia | 2 | | | | |
| Aug. 14 1974 | 18,000 | Cyclotella | 24 | Sept. 25 1974 | 6,500 | Cyclotella | 43 |
| | | Lyngbya | 23 | | | Melosira | 29 |
| | | Dictyosphaerium | 17 | | | Scenedesmus | 21 |
| | | Scenedesmus | 11 | | | Nitzschia | 3 |
| | | Agmenellum | 10 | | | Navicula | 3 |
| | | Tetrastrum | 4 | | | Rhoicosphenia | 1 |
| | | Synedra | 3 | | | Ankistrodesmus | 1 |
| | | Pediastrum | 3 | | | | |
| | | Phacus | 1 | | | | |
| | | Kirchneriella | 1 | | | | |
| | | Fragilaria | 1 | | | | |
| | | Navicula | 1 | | | | |
| | | Achnanthes | 1 | | | | |
| | | Melosira | 1 | | | | |
| | | Gomphonema | <1 | | | | |
| | | Diatoma | <1 | | | | |
| | | Polydriopsis | <1 | | | | |

## 04235505 OWASCO OUTLET BELOW AUBURN, N.Y.

LOCATION.--Lat 42°58'02", long 76°35'58", Cayuga County, at bridge on Division Street Road, 1.0 mi (1.6 km) north of Auburn city line and 2.0 mi (3.2 km) downstream from gaging station (04235500) near Auburn.

DRAINAGE AREA.--206 mi$^2$ (534 km$^2$) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 15... | 1030 | 92 | -- | -- | -- | -- | -- | -- | -- | 1.6 |
| DEC. | | | | | | | | | | |
| 06... | 1030 | 80 | -- | -- | -- | -- | -- | -- | -- | 1.1 |
| FEB. | | | | | | | | | | |
| 04... | 1100 | 310 | -- | -- | -- | -- | -- | -- | -- | 1.1 |
| MAY | | | | | | | | | | |
| 01... | 1200 | 61 | -- | -- | -- | -- | -- | -- | -- | 1.1 |
| 28... | 1100 | 111 | -- | -- | -- | -- | -- | -- | -- | .93 |
| JUNE | | | | | | | | | | |
| 10... | 1130 | 116 | -- | -- | -- | -- | -- | -- | -- | 1.5 |
| AUG. | | | | | | | | | | |
| 09... | 1030 | 66 | 2.4 | 190 | 50 | 161 | 0 | 132 | .2 | 1.7 |

| DATE | TOTAL NITRITE (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 15... | .00 | .70 | 2.3 | .30 | 360 | 7.9 | 12.0 | 2 | 9.6 | 94 |
| DEC. | | | | | | | | | | |
| 06... | .27 | .73 | 2.1 | .33 | 420 | 7.7 | 6.0 | 8 | 13.0 | 115 |
| FEB. | | | | | | | | | | |
| 04... | .04 | .54 | 1.6 | .11 | 350 | 7.2 | .0 | 4 | 20.4 | 140 |
| MAY | | | | | | | | | | |
| 01... | .20 | 1.8 | 3.1 | .43 | 580 | 7.8 | 11.0 | 10 | 11.8 | 108 |
| 28... | .17 | .44 | 1.5 | .05 | 365 | 8.2 | 11.0 | 2 | 11.2 | 101 |
| JUNE | | | | | | | | | | |
| 10... | .39 | .81 | 2.7 | .41 | 420 | 7.6 | 23.0 | 8 | 7.3 | 86 |
| AUG. | | | | | | | | | | |
| 09... | .20 | .77 | 2.7 | .42 | 520 | 7.5 | 21.0 | 3 | 7.4 | 82 |

| DATE | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | OIL AND GREASE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 15... | 1.4 | -- | 11000 | 1200 | -- | 5.1 | -- | -- | -- |
| DEC. | | | | | | | | | |
| 06... | 2.7 | -- | 63000 | 8160 | -- | 16 | -- | -- | -- |
| FEB. | | | | | | | | | |
| 04... | .8 | -- | 230 | 100 | -- | 1.5 | -- | -- | -- |
| MAY | | | | | | | | | |
| 01... | 6.1 | 10 | B25200 | B1130 | 570 | 6.3 | -- | -- | -- |
| 28... | 3.6 | 6.6 | -- | B1800 | 300 | 3.2 | -- | -- | -- |
| JUNE | | | | | | | | | |
| 10... | 5.9 | 8.0 | B12000 | B3100 | 65 | -- | -- | -- | -- |
| AUG. | | | | | | | | | |
| 09... | 2.0 | 6.5 | -- | 720 | -- | 6.4 | .00 | .1 | 0 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04235505 OWASCO OUTLET BELOW AUBURN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 15... | 1 | -- | -- | -- | 6 | -- | -- | -- | -- |
| DEC. 06... | 1 | -- | -- | -- | 9 | -- | -- | -- | -- |
| FEB. 04... | <1 | -- | -- | -- | 0 | <.5 | -- | -- | -- |
| MAY 01... | <1 | 0 | 0 | 20 | 20 | <.5 | -- | -- | -- |
| 28... | <1 | 0 | <10 | 10 | 0 | <.5 | -- | -- | -- |
| JUNE 10... | 0 | 0 | 0 | 20 | 5 | <.5 | -- | -- | -- |
| AUG. 09... | <1 | 0 | 0 | 10 | 3 | <.5 | 0 | 0 | .0 |

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 28... | 1100 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 28... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 28... | 1100 | .0 | 0 | 7.9 | .3 | 1.0 | .0 | 1.1 | .0 | .0 |
| AUG. 09... | 1030 | .0 | 0 | 1.4 | .2 | .4 | .0 | 1.0 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 28... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 4 | 0 | .0 |
| AUG. 09... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 09... | 1030 | <3.0 | 6.0 | 4.8 | 220 | <.4 | <.4 | <.4 | 6 |

## 04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.

**LOCATION.**--Lat 43°09'26", long 76°19'56", Onondaga County, at Erie (Barge) Canal lock 24 in Baldwinsville, 350 ft (107 m) upstream from gaging station.

**DRAINAGE AREA.**--3,136 mi² (8,122 km²).

**PERIOD OF RECORD.**--Chemical analyses: October 1957 to September 1958.
Water temperatures: October 1957 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures: Maximum, 25.5°C July 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 28.0°C July 24, 1964; minimum, freezing point on many days during winter periods.

**REMARKS.**--Stream frozen Dec. 26 to Jan. 27, Feb. 2-26. Additional water quality data available from New York State Department of Environmental Conservation.

**COOPERATION.**--Water temperature record furnished by the New York State Department of Transportation.

### CHEMICAL ANALYSES

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|
| JUNE 26... | 1015 | 2040 | 2 | 0 | 3 | <.5 |
| SEP. 18... | 0940 | 1700 | 1 | 10 | 5 | .6 |

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16.0 | 12.0 | --- | 0.0 | 2.0 | 1.0 | 3.0 | 12.0 | 18.0 | 20.5 | 23.0 | 22.0 |
| 2 | 16.0 | 11.5 | --- | 0.0 | 0.0 | 1.5 | 4.0 | 13.5 | 17.0 | 20.5 | 23.0 | 22.0 |
| 3 | 16.5 | 11.0 | 5.0 | 0.0 | 0.0 | 2.0 | 4.5 | 13.5 | 19.0 | 21.5 | 24.0 | 20.5 |
| 4 | 17.0 | 11.0 | 6.5 | 0.0 | 0.0 | 2.0 | 6.0 | 10.0 | 18.0 | 22.0 | 24.0 | 19.5 |
| 5 | 17.0 | 10.0 | 6.5 | 0.0 | 0.0 | 3.0 | 8.5 | 11.5 | 19.5 | 23.5 | 22.0 | 16.5 |
| 6 | 17.0 | 8.0 | 7.0 | 0.0 | 0.0 | 3.5 | --- | 13.5 | 20.5 | 22.0 | 22.0 | 16.5 |
| 7 | 17.0 | 5.5 | 6.5 | 0.0 | 0.0 | 5.5 | --- | 12.0 | 20.5 | 23.0 | 22.0 | 18.0 |
| 8 | 16.5 | 5.5 | --- | 0.0 | 0.0 | 6.0 | 6.0 | 12.0 | 21.0 | 23.5 | 23.0 | 19.5 |
| 9 | 16.0 | 5.5 | --- | 0.0 | 0.0 | --- | 6.0 | 13.5 | 21.5 | 24.5 | 23.0 | 20.5 |
| 10 | 16.5 | 5.5 | --- | 0.0 | 0.0 | --- | 5.5 | 13.5 | 21.5 | 25.5 | 23.5 | 20.5 |
| 11 | 16.0 | 6.0 | 5.5 | 0.0 | 0.0 | 4.0 | 6.0 | 12.0 | 22.0 | 24.5 | 23.5 | 21.0 |
| 12 | 16.0 | 5.5 | 4.5 | 0.0 | 0.0 | 3.5 | 7.0 | 13.0 | 20.5 | 24.0 | 24.0 | 21.5 |
| 13 | 16.5 | 5.5 | 4.0 | 0.0 | 0.0 | 2.0 | --- | 13.5 | 20.0 | 24.0 | 24.0 | 21.5 |
| 14 | 18.0 | 5.5 | 5.0 | 0.0 | 0.0 | 3.0 | --- | 12.0 | 20.5 | 24.0 | 24.5 | 20.5 |
| 15 | 15.5 | 5.5 | 3.5 | 0.0 | 0.0 | 3.5 | 10.0 | 14.0 | 21.0 | 24.5 | 24.5 | 20.0 |
| 16 | 15.0 | 5.5 | --- | 0.0 | --- | --- | 10.0 | 14.0 | 21.0 | 24.5 | 24.0 | 16.5 |
| 17 | 14.0 | 4.5 | 4.0 | 0.0 | 0.0 | 3.0 | 10.0 | 15.0 | 20.0 | 25.0 | 25.0 | 16.5 |
| 18 | 13.5 | 5.5 | 3.0 | 0.0 | 0.0 | 3.5 | 10.0 | 14.5 | 20.0 | 24.5 | 24.0 | 16.5 |
| 19 | 13.0 | 5.5 | 1.5 | 0.0 | 0.0 | 3.0 | 10.0 | 15.5 | 20.5 | 25.0 | 24.0 | 18.5 |
| 20 | 13.0 | 5.5 | 1.5 | 0.0 | 0.0 | 2.0 | --- | 15.0 | 20.5 | 24.5 | 24.0 | 18.5 |
| 21 | 11.5 | 5.5 | 1.0 | 0.0 | 0.0 | 2.0 | --- | 15.0 | 21.0 | 24.0 | 24.0 | 18.0 |
| 22 | 11.0 | 6.0 | --- | 0.0 | 0.0 | 1.5 | 11.0 | 15.5 | 21.0 | 24.0 | 24.5 | 17.0 |
| 23 | 12.0 | 6.0 | --- | 0.0 | 0.0 | 2.0 | 11.0 | 14.5 | 21.5 | 24.0 | 24.5 | 17.0 |
| 24 | 13.5 | 7.0 | --- | 0.0 | --- | 3.0 | 11.0 | 14.5 | 20.5 | 23.5 | 24.5 | 17.0 |
| 25 | 13.5 | 8.5 | --- | 0.0 | 0.0 | 1.0 | 9.0 | 15.5 | 20.5 | 21.5 | 24.5 | 16.0 |
| 26 | 13.5 | 7.0 | 0.0 | 0.0 | 0.0 | 1.5 | 9.5 | 15.5 | 20.0 | 23.0 | 24.5 | 16.0 |
| 27 | 13.5 | 6.0 | 0.0 | 0.0 | 1.0 | 2.0 | 11.0 | 15.5 | 19.0 | 23.0 | 25.0 | 17.0 |
| 28 | 13.0 | 6.0 | 0.0 | 1.0 | 1.5 | 3.0 | 12.0 | 15.5 | 20.5 | 23.5 | 24.5 | 18.0 |
| 29 | 13.0 | 6.5 | 0.0 | 2.0 | --- | 2.0 | 12.0 | 16.5 | 21.0 | 24.0 | 24.5 | 16.5 |
| 30 | 11.5 | 6.0 | 0.0 | 3.0 | --- | --- | 12.0 | 16.0 | 20.0 | 22.0 | 24.5 | 16.0 |
| 31 | 10.0 | --- | 0.0 | 3.5 | --- | --- | --- | 16.5 | --- | 23.5 | 23.5 | --- |
| AVERAGE | 14.5 | 7.0 | --- | 0.5 | 0.0 | 2.5 | 8.5 | 14.0 | 20.5 | 23.5 | 24.0 | 18.5 |

## 04250504 SALMON RIVER BELOW PULASKI, N.Y.

LOCATION.--Lat 43°34'11", long 76°11'15", Oswego County, at bridge on State Highway 3, at Port Ontario, 0.4 mi (0.6 km) upstream from mouth, and 2.1 mi (3.4 km) west of Pulaski.

DRAINAGE AREA.--267 mi² (692 km²) at mouth.

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1200 | -- | -- | -- | -- | -- | -- | -- | .12 | .00 |
| DEC. 19... | 1030 | -- | -- | -- | -- | -- | -- | -- | .64 | .01 |
| APR. 23... | 1200 | -- | 170 | 20 | -- | -- | -- | -- | .72 | .00 |
| MAY 21... | 1300 | -- | -- | -- | -- | -- | -- | -- | .44 | .01 |
| JUNE 18... | 1200 | -- | -- | -- | -- | -- | -- | -- | .21 | .01 |
| AUG. 06... | 1330 | 2.4 | 120 | 40 | 26 | 0 | 21 | .1 | .16 | .01 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .27 | .40 | .00 | 138 | 7.3 | 8.0 | 4 | 10.5 | 90 | 1.1 |
| DEC. 19... | .13 | .78 | .00 | 62 | 6.6 | .0 | 1 | 16.4 | 114 | .0 |
| APR. 23... | .18 | .90 | .01 | 42 | 8.1 | 6.0 | 1 | 10.6 | 86 | 3.2 |
| MAY 21... | .26 | .71 | .01 | 63 | 7.8 | 13.5 | 2 | 9.6 | 93 | 7.3 |
| JUNE 18... | .33 | .55 | .02 | 73 | 7.7 | 19.0 | 2 | 6.7 | 71 | 2.4 |
| AUG. 06... | .32 | .49 | .02 | 59 | 8.1 | 22.0 | 3 | 7.8 | 90 | 5.0 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | -- | B8100 | B940 | -- | 16 | -- | -- | -- | 0 | -- |
| DEC. 19... | -- | 580 | -- | -- | 4.5 | -- | -- | -- | 3 | -- |
| APR. 23... | 8.8 | 670 | 180 | -- | -- | .00 | -- | -- | <1 | 0 |
| MAY 21... | 12 | B1300 | B40 | 23 | 3.7 | -- | -- | -- | 0 | -- |
| JUNE 18... | 9.6 | 6900 | 140 | B1100 | -- | -- | -- | -- | 2 | -- |
| AUG. 06... | 3.8 | -- | 170 | -- | 6.2 | .00 | .0 | 1 | 1 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04250504 SALMON RIVER BELOW PULASKI, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | -- | -- | -- | 3 | <.5 | -- | -- | -- | -- |
| DEC. 19... | -- | -- | -- | 15 | <.5 | -- | -- | -- | -- |
| APR. 23... | 0 | 20 | 10 | 3 | <.5 | -- | 0 | 0 | -- |
| MAY 21... | 0 | 10 | 0 | 1 | <.5 | -- | -- | -- | -- |
| JUNE 18... | 0 | 20 | 0 | 1 | <.5 | -- | -- | -- | -- |
| AUG. 05... | 0 | <10 | 40 | 41 | <.5 | 0 | <2 | -- | .5 |

### PESTICIDE ANALYSIS

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | 1300 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | 1300 | .0 | 0 | 1.3 | 1.0 | 1.0 | .0 | .7 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 6 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 06... | 1330 | <.5 | 3.1 | 2.5 | 47 | <.4 | .5 | .5 | 5 |

## 04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.

LOCATION.--Lat 43°26'20", long 75°12'17", Oneida County, at bridge on State Highway 28 and 365, in Forestport, 0.1 mi (0.2 km) upstream from outlet of Alder Pond and 0.4 mi (0.6 km) downstream from Woodhull Creek.

DRAINAGE AREA.--247 mi² (640 km²).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | 1000 | -- | -- | -- | -- | -- | -- | -- | .14 | .00 |
| DEC. 27... | 1230 | -- | -- | -- | -- | -- | -- | -- | .73 | .00 |
| MAR. 28... | 1045 | -- | -- | -- | -- | -- | -- | -- | .74 | .01 |
| APR. 24... | 1045 | -- | 150 | 130 | -- | -- | -- | -- | .76 | .01 |
| MAY 23... | 1130 | -- | -- | -- | -- | -- | -- | -- | .42 | .01 |
| JUNE 18... | 1000 | -- | -- | -- | -- | -- | -- | -- | .21 | .01 |
| AUG. 08... | 1000 | 4.9 | 300 | 50 | 7 | 0 | 6 | .3 | .15 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | .20 | .35 | .01 | 43 | 6.7 | 11.0 | 2 | 10.1 | 93 | 2.5 |
| DEC. 27... | .08 | .81 | .00 | 33 | 7.1 | .5 | 2 | 15.1 | 106 | .0 |
| MAR. 28... | .07 | .82 | .01 | 39 | 6.6 | .5 | -- | 14.8 | 103 | .5 |
| APR. 24... | .15 | .92 | .01 | 37 | 7.2 | 7.0 | 1 | 12.4 | 105 | .0 |
| MAY 23... | .24 | .67 | .01 | 39 | 6.6 | 16.0 | 2 | 9.5 | 99 | .2 |
| JUNE 18... | .26 | .48 | .01 | 36 | 6.7 | 18.0 | 2 | 9.5 | 99 | 1.2 |
| AUG. 08... | .26 | .41 | .02 | 30 | 6.7 | 23.5 | 2 | 8.5 | 100 | 3.5 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | -- | 320 | 24 | -- | 4.7 | -- | -- | -- | <1 | -- |
| DEC. 27... | -- | 470 | B20 | -- | 4.0 | -- | -- | -- | 0 | -- |
| MAR. 28... | -- | B22 | B2 | -- | 5.0 | -- | -- | -- | 0 | -- |
| APR. 24... | .0 | 94 | 4 | 5 | 3.6 | .00 | -- | -- | 1 | 0 |
| MAY 23... | 1.0 | B470 | 13 | B6 | 11 | -- | -- | -- | 0 | -- |
| JUNE 18... | 2.0 | -- | B19 | 9 | 12 | -- | -- | -- | 0 | -- |
| AUG. 08... | 2.0 | -- | 48 | -- | 6.8 | .00 | .0 | 0 | 5 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | -- | -- | -- | 7 | <.5 | -- | -- | -- | -- |
| DEC. 27... | -- | -- | -- | 20 | <.5 | -- | -- | -- | -- |
| MAR. 28... | -- | -- | -- | 7 | <.5 | -- | -- | -- | -- |
| APR. 24... | 0 | 10 | 10 | 1 | <.5 | -- | 0 | 0 | -- |
| MAY 23... | 0 | 10 | 0 | 3 | <.5 | -- | -- | -- | -- |
| JUNE 18... | 0 | <10 | 6 | 10 | <.5 | -- | -- | -- | -- |
| AUG. 08... | 0 | <10 | 0 | 0 | .7 | 3 | 2 | -- | .0 |

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 23... | 1130 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 23... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 23... | 1130 | .0 | 0 | .9 | .5 | .0 | .0 | .0 | .0 | .0 |
| AUG. 08... | 1000 | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 23... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |
| AUG. 08... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 08... | 1000 | <.4 | 3.4 | 2.8 | 35 | <.4 | <.4 | <.4 | 4 |

## 04254965 BLACK RIVER AT GRIEG, N.Y.

LOCATION.--Lat 43°40'36", long 75°21'39", Lewis County, at bridge on Burdicks Crossing Road, 0.2 mi (0.3 km) upstream from unnamed tributary, and 1.1 mi (1.8 km) downstream from Fish Creek at Grieg.

DRAINAGE AREA.--921 $mi^2$ (2,385 $km^2$).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 29... | 1100 | 6.4 | 230 | 10 | -- | 8.2 | -- | 1.2 | -- | 6.0 | -- | .7 |
| NOV. 26... | 1430 | 5.4 | 180 | 20 | -- | 10 | -- | 1.1 | -- | 2.2 | -- | .8 |
| APR. 29... | 1300 | 4.0 | 380 | 60 | 13 | -- | 2.3 | -- | 1.0 | -- | .3 | -- |
| MAY 20... | 0835 | 4.1 | 200 | 40 | 9.6 | -- | .8 | -- | 1.5 | -- | .7 | -- |
| JUNE 17... | 1140 | 4.1 | 810 | 40 | 13 | -- | 1.2 | -- | 1.8 | -- | .8 | -- |
| JULY 15... | 1145 | -- | 540 | 90 | 9.5 | -- | 1.2 | -- | 5.3 | -- | .6 | -- |
| AUG. 13... | 1115 | -- | 430 | 80 | 9.1 | -- | 1.0 | -- | 3.0 | -- | .6 | -- |
| SEP. 09... | 1455 | -- | 420 | 30 | 13 | -- | 1.3 | -- | 3.2 | -- | .8 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 29... | 23 | 0 | 19 | 15 | 1.5 | -- | .3 | .05 | .01 | .06 | .23 |
| NOV. 26... | 25 | 0 | 21 | 9.4 | 1.3 | -- | .3 | .35 | .00 | .02 | .15 |
| APR. 29... | 15 | 0 | 12 | 9.5 | .8 | .1 | -- | .55 | .01 | .10 | .10 |
| MAY 20... | 15 | 0 | 12 | 8.1 | 1.1 | .1 | -- | .34 | .05 | .04 | .53 |
| JUNE 17... | 32 | 0 | 26 | 8.6 | 1.0 | .2 | -- | .26 | .01 | .06 | .38 |
| JULY 15... | 27 | 0 | 22 | 17 | 1.2 | -- | -- | .13 | .01 | .21 | .25 |
| AUG. 13... | 22 | -- | 18 | 13 | 1.0 | -- | -- | .14 | .01 | .25 | .03 |
| SEP. 09... | 32 | -- | 26 | 9.1 | 1.5 | -- | -- | .13 | .00 | .23 | .00 |

## 04254965 BLACK RIVER AT GRIEG, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 29... | .29 | .36 | .00 | -- | .00 | 51 | 68 | 47 | 0 | 0 | 25 |
| NOV. | | | | | | | | | | | |
| 26... | .17 | .53 | .01 | -- | .01 | 43 | 46 | 29 | 5 | 2 | 30 |
| APR. | | | | | | | | | | | |
| 29... | .20 | .76 | .01 | .00 | -- | -- | 45 | 26 | 2 | 1 | -- |
| MAY | | | | | | | | | | | |
| 20... | .57 | .96 | .01 | .00 | -- | -- | 53 | 35 | 6 | 3 | -- |
| JUNE | | | | | | | | | | | |
| 17... | .44 | .71 | .04 | .01 | -- | -- | 78 | 49 | 18 | 11 | -- |
| JULY | | | | | | | | | | | |
| 15... | .46 | .60 | .02 | .01 | -- | -- | 82 | 42 | 7 | 2 | -- |
| AUG. | | | | | | | | | | | |
| 13... | .28 | .43 | .01 | .01 | -- | -- | 66 | 25 | 7 | 2 | -- |
| SEP. | | | | | | | | | | | |
| 09... | .23 | .36 | .01 | .01 | -- | -- | 68 | 49 | 2 | 0 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 29... | 7 | 85 | 6.3 | -- | -- | 26 | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 26... | 9 | 73 | 6.9 | -- | -- | 16 | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 29... | -- | 58 | 6.7 | -- | -- | 19 | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 20... | -- | 57 | 7.3 | -- | -- | 16 | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 17... | -- | 78 | 6.9 | -- | -- | 25 | .0 | <1 | 10 | 9 | <.5 |
| JULY | | | | | | | | | | | |
| 15... | -- | 88 | 7.1 | 30 | 2 | 33 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 13... | -- | 72 | -- | 10 | 2 | 18 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 09... | -- | 82 | -- | 20 | 3 | 15 | -- | 0 | 0 | 2 | <.5 |

## 04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, temperature recorder at gaging station on right bank at downstream side of highway bridge on Donnattsburg Road in Donnattsburg, 1.2 mi (1.9 km) downstream from Chase Lake Outlet, 4.2 mi (6.8 km) northeast of Glenfield, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--91.7 mi$^2$ (238 km$^2$).

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1961, October 1963 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 26.0°C July 9; minimum, freezing point on several days during winter period.

Period of record:
Water temperatures: Maximum (1959-61, 1964-69, 71-74), 26.5°C July 24, 1961; minimum, freezing point on many days during winter periods.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 14.0 | 10.5 | 8.0 | 7.0 | 3.5 | 1.5 | 1.0 | 1.0 | 0.5 | 0.5 | 1.5 | 1.0 |
| 2 | 13.5 | 13.0 | 7.0 | 7.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 1.0 | 1.0 |
| 3 | 16.0 | 13.5 | 7.0 | 6.0 | 1.5 | 1.0 | 1.0 | 0.5 | 1.5 | 0.5 | 1.0 | 1.0 |
| 4 | 16.0 | 15.5 | 6.0 | 5.0 | 3.0 | 1.5 | 0.5 | 0.5 | 1.0 | 0.5 | 1.0 | 0.5 |
| 5 | 16.0 | 14.5 | 5.0 | 4.5 | 5.0 | 3.0 | 0.5 | 0.5 | 1.0 | 0.5 | 0.5 | 0.5 |
| 6 | 14.5 | 12.0 | 4.5 | 3.5 | 5.0 | 4.0 | 0.5 | 0.5 | 1.0 | 0.5 | 1.0 | 0.5 |
| 7 | 13.5 | 11.5 | 3.5 | 3.0 | 4.0 | 3.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 0.5 |
| 8 | 14.0 | 12.0 | 3.0 | 3.0 | 3.0 | 1.5 | 1.0 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| 9 | 13.5 | 11.5 | 3.5 | 1.5 | 1.5 | 1.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| 10 | 13.5 | 11.0 | 1.5 | 1.0 | 1.5 | 1.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5 | 1.0 |
| 11 | 13.5 | 10.5 | 2.0 | 1.5 | 1.5 | 1.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5 | 1.0 |
| 12 | 13.5 | 11.0 | 2.0 | 1.5 | 1.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| 13 | 14.5 | 12.0 | 3.5 | 2.0 | 1.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.0 | 1.0 | 1.0 |
| 14 | 14.5 | 12.0 | 5.5 | 3.5 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.0 | 1.0 | 1.0 |
| 15 | 12.0 | 11.0 | 5.0 | 5.0 | 1.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| 16 | 11.0 | 9.5 | 5.0 | 3.5 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| 17 | 9.5 | 9.0 | 3.5 | 2.0 | 1.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 0.5 |
| 18 | 9.0 | 8.5 | 3.0 | 2.0 | 2.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 0.5 |
| 19 | 9.0 | 8.0 | 3.0 | 2.0 | 2.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.0 | 1.0 | 0.5 |
| 20 | 8.5 | 8.5 | 2.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5 | 0.5 |
| 21 | 9.5 | 8.5 | 3.0 | 1.0 | 1.5 | 0.5 | 0.5 | 0.0 | 0.5 | 0.5 | 1.5 | 0.5 |
| 22 | 9.0 | 7.0 | 4.5 | 3.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 23 | 9.5 | 7.0 | 4.0 | 3.5 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.5 | 0.5 | 0.5 |
| 24 | 10.0 | 8.0 | 4.5 | 3.5 | 1.5 | 1.0 | 1.0 | 0.0 | 1.5 | 1.0 | 1.0 | 0.5 |
| 25 | 10.5 | 8.0 | 5.0 | 4.5 | 1.5 | 1.0 | 1.5 | 0.5 | 1.0 | 1.0 | 0.5 | 0.5 |
| 26 | 11.0 | 9.0 | 4.5 | 3.5 | 1.0 | 0.5 | 1.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.5 |
| 27 | 11.0 | 8.5 | 5.0 | 3.5 | 0.5 | 0.5 | 1.0 | 0.5 | 1.5 | 1.0 | 1.5 | 0.5 |
| 28 | 8.5 | 7.0 | 6.0 | 5.0 | 1.0 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 | 1.5 | 1.0 |
| 29 | 8.0 | 7.0 | 6.0 | 4.5 | 1.0 | 1.0 | 1.0 | 0.5 | --- | --- | 1.0 | 0.5 |
| 30 | 8.5 | 8.0 | 4.5 | 3.5 | 1.0 | 1.0 | 0.5 | 0.5 | --- | --- | 1.5 | 0.5 |
| 31 | 8.0 | 6.5 | --- | --- | 1.0 | 1.0 | 0.5 | 0.5 | --- | --- | 1.5 | 0.5 |

| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 1 | 3.0 | 0.5 | 13.5 | 10.5 | 18.0 | 16.5 | 21.0 | 17.0 | 21.5 | 18.5 | 19.5 | 18.0 |
| 2 | 1.5 | 1.0 | 10.5 | 7.0 | 18.0 | 16.5 | 21.0 | 19.0 | 21.5 | 18.0 | 19.0 | 15.0 |
| 3 | 4.5 | 1.0 | 9.5 | 8.5 | 17.0 | 15.0 | 21.0 | 20.0 | 21.5 | 19.5 | 17.0 | 15.0 |
| 4 | 2.0 | 0.5 | 8.5 | 7.0 | 18.0 | 16.0 | 21.0 | 20.0 | 21.0 | 20.0 | 16.0 | 16.0 |
| 5 | 0.5 | 0.5 | 9.0 | 6.0 | 19.5 | 15.5 | 22.0 | 21.0 | 20.5 | 19.0 | 17.0 | 13.0 |
| 6 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 7 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 8 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 9 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 10 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 11 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 12 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 13 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 14 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 15 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 16 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 17 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 18 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 19 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 20 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 21 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 22 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 23 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 24 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 25 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 26 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 27 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 28 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 29 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 30 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| 31 | --- | --- | [illegible] | [illegible] | --- | --- | [illegible] | [illegible] | [illegible] | [illegible] | --- | --- |

## 04257150 BEAVER RIVER AT MOSHIER FALLS, N.Y.

**LOCATION.**--Lat 43°52'20", long 75°08'10", Herkimer County, at the Niagara-Mohawk Moshier Falls Power Station, at mouth of Sunday Creek and 2.2 mi (3.5 km) east of Number Four.

**DRAINAGE AREA.**--184 mi² (477 km²).

**PERIOD OF RECORD.**--Water temperatures: October 1955 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures: Maximum, 21.0°C on several days during August; minimum, 1.0°C on many days during December to February.

Period of record:
Water temperatures: Maximum, 23.5°C Sept. 10, 1959; minimum, freezing point on Jan. 1, 2, 1969.

**REMARKS.**--No record available June 1, 3-29.

**COOPERATION.**--Water temperature record furnished by the Niagara Mohawk Power Corporation.

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
### (ONCE-DAILY MEASUREMENT BETWEEN 0900 AND 1500)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 14.5 | 8.5 | 3.5 | 1.0 | 1.0 | 1.5 | 2.0 | 6.0 | --- | 18.0 | 19.5 | 20.5 |
| 2 | 14.5 | 8.5 | 3.0 | 1.0 | 1.0 | 1.5 | 2.0 | 7.0 | 13.0 | 18.0 | 19.5 | 20.0 |
| 3 | 14.5 | 8.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 | 8.0 | --- | 18.5 | 20.5 | 20.0 |
| 4 | 14.5 | 6.5 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 | 7.0 | --- | 18.0 | 20.5 | 20.0 |
| 5 | 14.5 | 6.0 | 2.0 | 1.0 | 1.0 | 2.0 | 3.0 | 8.0 | --- | 18.5 | 19.0 | 19.5 |
| 6 | 14.0 | 6.0 | 3.0 | 1.0 | 1.0 | 2.0 | 2.0 | 8.0 | --- | 18.5 | 19.5 | 19.0 |
| 7 | 14.0 | 5.5 | 3.0 | 1.0 | 1.5 | 3.0 | 2.0 | 8.0 | --- | 19.0 | 20.0 | 19.0 |
| 8 | 14.0 | 5.5 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 | 7.0 | --- | 19.0 | 20.0 | 19.0 |
| 9 | 13.5 | 5.0 | 2.0 | 1.0 | 1.0 | 1.5 | 1.5 | 7.0 | --- | 19.5 | 20.5 | 19.0 |
| 10 | 14.0 | 5.0 | 3.5 | 1.0 | 1.0 | 1.5 | 2.0 | 7.0 | --- | 19.5 | 20.5 | 19.0 |
| 11 | 14.0 | 4.0 | 3.0 | 1.0 | 1.0 | 1.5 | 2.0 | 7.0 | --- | 19.5 | 20.5 | 19.0 |
| 12 | 13.5 | 4.5 | 2.0 | 1.0 | 1.0 | 1.5 | 2.0 | 8.0 | --- | 20.0 | 20.0 | 19.0 |
| 13 | 13.5 | 4.0 | 2.0 | 1.0 | 1.5 | 1.5 | 2.0 | 8.0 | --- | 19.5 | 20.5 | 19.0 |
| 14 | 13.5 | 4.5 | 3.0 | 1.0 | 1.0 | 1.5 | 2.0 | 8.0 | --- | 20.0 | 20.5 | 18.5 |
| 15 | 13.5 | 4.5 | 1.5 | 1.0 | 1.0 | 2.0 | 3.0 | 8.5 | --- | 20.0 | 20.0 | 18.5 |
| 16 | 13.0 | 4.0 | 1.5 | 1.0 | 1.5 | 2.0 | 3.5 | 8.5 | --- | 20.0 | 20.5 | 18.0 |
| 17 | 12.0 | 3.5 | 1.5 | 1.0 | 1.5 | 1.5 | 2.0 | 9.0 | --- | 20.0 | 19.5 | 18.0 |
| 18 | 12.0 | 3.5 | 1.5 | 1.0 | 1.5 | 2.0 | 3.0 | 9.5 | --- | 20.0 | 19.5 | 18.0 |
| 19 | 11.0 | 3.5 | 1.5 | 1.0 | 1.5 | 1.5 | 3.0 | 9.0 | --- | 20.0 | 20.5 | 18.5 |
| 20 | 11.0 | 3.0 | 1.5 | 1.0 | 1.5 | 1.5 | 3.0 | 10.0 | --- | 20.0 | 20.5 | 17.0 |
| 21 | 11.0 | 3.0 | 1.5 | 1.0 | 1.5 | 1.5 | 3.5 | 10.5 | --- | 20.0 | 21.0 | 16.5 |
| 22 | 10.5 | 3.0 | 1.5 | 1.0 | 1.0 | 2.0 | 3.5 | 11.0 | --- | 20.0 | 21.0 | 15.5 |
| 23 | 10.5 | 3.0 | 1.5 | 1.5 | 1.5 | 2.0 | 4.5 | 11.0 | --- | 20.0 | 21.0 | 14.5 |
| 24 | 10.0 | 3.0 | 1.0 | 1.0 | 1.5 | 2.0 | 4.0 | 11.5 | --- | 20.0 | 21.0 | 14.5 |
| 25 | 11.0 | 3.0 | 1.5 | 1.0 | 1.5 | 1.5 | 4.0 | 11.0 | --- | 20.0 | 21.0 | 14.5 |
| 26 | 10.5 | 3.0 | 1.5 | 1.0 | 1.0 | 2.0 | 4.5 | 11.5 | --- | 20.0 | 21.0 | 14.5 |
| 27 | 10.5 | 3.0 | 1.0 | 1.5 | 1.5 | 2.0 | 5.0 | 11.5 | --- | 19.5 | 21.0 | 14.5 |
| 28 | 10.5 | 3.5 | 1.5 | 1.5 | 1.5 | 2.0 | 5.0 | 11.0 | --- | 19.5 | 21.0 | 14.5 |
| 29 | 10.0 | 3.5 | 1.0 | 1.0 | --- | 2.0 | 7.0 | 11.0 | --- | 20.0 | 21.0 | 14.5 |
| 30 | 10.0 | 3.5 | 1.0 | 1.5 | --- | 2.0 | 7.0 | 11.5 | 17.0 | 20.0 | 20.5 | 14.0 |
| 31 | 9.5 | --- | 1.0 | 1.5 | --- | 2.0 | --- | 12.0 | --- | 19.5 | 20.5 | --- |
| AVERAGE | 12.5 | 4.5 | 2.0 | 1.0 | 1.5 | 2.0 | 3.0 | 9.0 | --- | 19.5 | 20.5 | 17.5 |

## 04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.

LOCATION.--Lat 43°56'58", long 75°33'49", Lewis County, 100 feet off State Highway 26A, 1.1 mi (1.8 km) downstream from Deer River, and 1.8 mi (2.9 km) southeast of Carthage.

DRAINAGE AREA.--1,780 mi² (4,610 km²) at mouth of Deer River.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | 1315 | -- | -- | -- | -- | -- | -- | -- | .08 | .00 |
| DEC. | | | | | | | | | | |
| 20... | 1230 | -- | -- | -- | -- | -- | -- | -- | .51 | .00 |
| MAR. | | | | | | | | | | |
| 05... | 1000 | -- | -- | -- | -- | -- | -- | -- | .57 | .02 |
| APR. | | | | | | | | | | |
| 24... | 1030 | -- | 420 | 50 | -- | -- | -- | -- | .53 | .01 |
| MAY | | | | | | | | | | |
| 22... | 1030 | -- | -- | -- | -- | -- | -- | -- | .33 | .01 |
| JUNE | | | | | | | | | | |
| 19... | 0830 | -- | -- | -- | -- | -- | -- | -- | .24 | .01 |
| AUG. | | | | | | | | | | |
| 07... | 1000 | 5.0 | 420 | 60 | 16 | 0 | 13 | .2 | .13 | .01 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | .18 | .27 | .02 | 78 | 7.2 | 12.0 | 1 | 8.1 | 76 | .0 |
| DEC. | | | | | | | | | | |
| 20... | .17 | .69 | .01 | 61 | 6.7 | .0 | 2 | 15.0 | 104 | .0 |
| MAR. | | | | | | | | | | |
| 05... | .16 | .75 | .00 | 75 | 7.0 | 1.0 | 3 | 11.8 | 84 | 4.4 |
| APR. | | | | | | | | | | |
| 24... | .21 | .73 | .02 | 56 | 7.0 | 7.0 | 3 | -- | -- | .6 |
| MAY | | | | | | | | | | |
| 22... | .41 | .75 | .03 | 56 | 7.0 | 12.0 | [illegible] | 8.0 | 75 | 7.0 |
| JUNE | | | | | | | | | | |
| 19... | .36 | .61 | .02 | 66 | 7.3 | 16.5 | [illegible] | 7.0 | 73 | .5 |
| AUG. | | | | | | | | | | |
| 07... | .45 | .59 | .02 | 92 | 7.0 | 20.5 | [illegible] | 6.5 | 72 | -- |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | -- | [illegible] | [illegible] | -- | 6.7 | -- | [illegible] | -- | 0 | -- |
| DEC. | | | | | | | | | | |
| 20... | -- | [illegible] | -- | -- | 4.9 | -- | [illegible] | -- | <1 | -- |
| MAR. | | | | | | | | | | |
| 05... | -- | [illegible] | 1000 | -- | 7.0 | -- | [illegible] | -- | 1 | -- |
| APR. | | | | | | | | | | |
| 24... | 5.6 | [illegible] | 110 | -- | -- | .00 | [illegible] | -- | <1 | 0 |
| MAY | | | | | | | | | | |
| 22... | [illegible] | [illegible] | [illegible] | [illegible] | -- | -- | [illegible] | -- | 1 | -- |
| JUNE | | | | | | | | | | |
| 19... | 5.6 | [illegible] | [illegible] | [illegible] | 14 | -- | [illegible] | -- | <1 | -- |
| AUG. | | | | | | | | | | |
| 07... | -- | -- | [illegible] | -- | 6.6 | .00 | [illegible] | 0 | <1 | -- |

K Results based on colony count outside the acceptable range (non-ideal colony count).

## 04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD- MIUM (CD) (UG/L) | TOTAL CHRO- MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE- NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA- DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | -- | -- | -- | 3 | <.5 | -- | -- | -- | -- |
| DEC. 20... | -- | -- | -- | 7 | <.5 | -- | -- | -- | -- |
| MAR. 05... | -- | -- | -- | 2 | <.5 | -- | -- | -- | -- |
| APR. 24... | 0 | 0 | 0 | 0 | <.5 | -- | 0 | 0 | -- |
| MAY 22... | 0 | <10 | 0 | 0 | <.5 | -- | -- | -- | -- |
| JUNE 19... | 0 | 0 | 10 | 3 | <.5 | -- | -- | -- | -- |
| AUG. 07... | 0 | <10 | 10 | 0 | <.5 | 6 | 0 | -- | 2.5 |

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR- DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI- AZINON (UG/L) | DI- ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA- CHLOR (UG/L) | HEPTA- CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | 0830 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA- THION (UG/L) | METHYL PARA- THION (UG/L) | METHYL TRI- THION (UG/L) | PARA- THION (UG/L) | PCB (UG/L) | TOX- APHENE (UG/L) | TRI- THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE- POSITS (UG/KG) | CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG) | DDD IN BOTTOM DE- POSITS (UG/KG) | DDE IN BOTTOM DE- POSITS (UG/KG) | DDT IN BOTTOM DE- POSITS (UG/KG) | DI- AZINON IN BOTTOM DE- POSITS (UG/KG) | DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG) | ENDRIN IN BOTTOM DE- POSITS (UG/KG) | ETHION IN BOTTOM DE- POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | 0830 | .0 | 0 | .3 | .0 | .3 | .0 | .0 | .0 | .0 |
| AUG. 07... | 1000 | .0 | 0 | 2.1 | 1.3 | 1.4 | .0 | 1.2 | .0 | .0 |

| DATE | HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG) | HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG) | LINDANE IN BOTTOM DE- POSITS (UG/KG) | MALA- THION IN BOTTOM DE- POSITS (UG/KG) | METHYL PARA- THION IN BOT- TOM DE- POSITS (UG/KG) | METHYL TRI- THION IN BOT- TOM DE- POSITS (UG/KG) | PARA- THION IN BOTTOM DE- POSITS (UG/KG) | PCB IN BOTTOM DE- POSITS (UG/KG) | TOX- APHENE IN BOTTOM DE- POSITS (UG/KG) | TRI- THION IN BOTTOM DE- POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |
| AUG. 07... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10 | 0 | .0 |

### RADIOCHEMICAL ANALYSES

| DATE | TIME | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 07... | 1000 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

### 04258750 BLACK RIVER BELOW CARTHAGE, N.Y.

LOCATION.--Lat 43°59'53", long 75°38'17", Jefferson County, at railroad bridge of Penn-Central Transportation Company, 800 ft (244 m) west of State Highway 3, 0.8 mi (1.3 km) northwest of Carthage, and 2.1 mi (3.4 km) downstream from bridge on State Highway 26.

DRAINAGE AREA.--1,809 mi$^2$ (4,685 km$^2$).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | 1530 | -- | -- | -- | -- | -- | -- | -- | .07 | .01 |
| DEC. | | | | | | | | | | |
| 20... | 0900 | -- | -- | -- | -- | -- | -- | -- | .56 | .00 |
| MAR. | | | | | | | | | | |
| 05... | 0830 | -- | 890 | 90 | -- | -- | -- | -- | .58 | .02 |
| APR. | | | | | | | | | | |
| 24... | 1130 | -- | 440 | 50 | -- | -- | -- | -- | .58 | .01 |
| MAY | | | | | | | | | | |
| 22... | 1130 | -- | -- | -- | -- | -- | -- | -- | .29 | .01 |
| JUNE | | | | | | | | | | |
| 19... | 1100 | -- | -- | -- | -- | -- | -- | -- | .25 | .01 |
| AUG. | | | | | | | | | | |
| 07... | 1130 | 4.8 | 380 | 500 | 17 | 0 | 14 | .2 | .12 | .01 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | .24 | .32 | .03 | 66 | 7.2 | 13.5 | 2 | 10.4 | 101 | 2.7 |
| DEC. | | | | | | | | | | |
| 20... | .20 | .77 | .02 | 75 | 6.8 | .0 | 4 | 15.1 | 105 | .0 |
| MAR. | | | | | | | | | | |
| 05... | .17 | .77 | .08 | 80 | 6.8 | 1.0 | 14 | 12.6 | 89 | 4.9 |
| APR. | | | | | | | | | | |
| 24... | .27 | .88 | .02 | 62 | 7.9 | 7.0 | 3 | -- | -- | 4.7 |
| MAY | | | | | | | | | | |
| 22... | .38 | .68 | .03 | 62 | 8.1 | 12.0 | 2 | 9.0 | 84 | 4.0 |
| JUNE | | | | | | | | | | |
| 19... | .41 | .67 | .03 | 74 | 7.1 | 18.0 | 6 | 7.9 | 84 | 4.3 |
| AUG. | | | | | | | | | | |
| 07... | .19 | .32 | .03 | 95 | 7.6 | 21.0 | 4 | 7.5 | 84 | -- |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 11... | -- | [illegible] | [illegible] | -- | [illegible] | -- | -- | -- | [illegible] | -- |
| DEC. | | | | | | | | | | |
| 20... | -- | [illegible] | -- | -- | [illegible] | -- | -- | -- | [illegible] | -- |
| MAR. | | | | | | | | | | |
| 05... | -- | [illegible] | [illegible] | -- | [illegible] | -- | -- | -- | [illegible] | -- |
| APR. | | | | | | | | | | |
| 24... | [illegible] | [illegible] | [illegible] | -- | -- | [illegible] | -- | -- | [illegible] | [illegible] |
| MAY | | | | | | | | | | |
| 22... | [illegible] | [illegible] | [illegible] | [illegible] | -- | -- | -- | -- | [illegible] | -- |
| JUNE | | | | | | | | | | |
| 19... | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | -- | -- | -- | [illegible] | -- |
| AUG. | | | | | | | | | | |
| 07... | -- | -- | [illegible] | -- | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | -- |

* Results based on colony count outside the acceptable range (non-ideal colony count).

## 04258750 BLACK RIVER BELOW CARTHAGE, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 11... | -- | -- | -- | 6 | <.5 | -- | -- | -- | -- |
| DEC. 20... | -- | -- | -- | 14 | <.5 | -- | -- | -- | -- |
| MAR. 05... | -- | -- | -- | 2 | .8 | -- | -- | -- | -- |
| APR. 24... | 0 | 10 | 10 | 2 | <.5 | -- | 0 | 0 | -- |
| MAY 22... | 1 | 0 | 10 | 1 | <.5 | -- | -- | -- | -- |
| JUNE 19... | 0 | <10 | 0 | 2 | <.5 | -- | -- | -- | -- |
| AUG. 07... | 0 | <10 | 10 | 2 | <.5 | 0 | <2 | -- | .0 |

### PESTICIDE ANALYSIS

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | 1100 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOXA-PHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | 1100 | .0 | 0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOXA-PHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 19... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |

### [illegible]

| DATE | TIME | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

## 04259980 BLACK RIVER AT HUNTINGTONVILLE, N.Y.

**LOCATION.**--Lat 43°59'01", long 75°51'43", Jefferson County, at Watertown water department dosing station at middle of right channel at Huntington Island, 0.5 mi (0.8 km) north of Huntingtonville, and 3.8 mi (6.1 km) upstream of gaging station (04260500) at Watertown.

**DRAINAGE AREA.**--1,876 mi² (4,859 km²) at gaging station.

**PERIOD OF RECORD.**--Water temperatures: April 1969 to September 1974.

**EXTREMES.**--1973-74:
Water temperatures: Maximum, 24.0°C Aug. 23; minimum, freezing point on Jan. 1-3.

Period of record:
Water temperatures: Maximum, 26.0°C Sept. 3-5, 1973; minimum, freezing point on many days during winter periods 1972-74.

**REMARKS.**--No record on most Sundays.

**COOPERATION.**--Water temperature record furnished by the City of Watertown.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT APPROXIMATELY 0900)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15.0 | 9.5 | 4.5 | 0.0 | 0.5 | 0.5 | 1.0 | 13.0 | 16.5 | 19.0 | 21.0 | 20.0 |
| 2 | 15.0 | 8.5 | --- | 0.0 | 0.5 | 0.5 | 1.0 | 12.0 | --- | 19.5 | 21.0 | 20.0 |
| 3 | 15.5 | 8.5 | 4.5 | 0.0 | --- | --- | 0.5 | 13.0 | 18.0 | 20.0 | 21.0 | 19.0 |
| 4 | 15.5 | --- | 4.5 | 0.5 | 0.5 | 0.5 | 2.0 | 10.5 | 18.5 | 21.0 | 22.0 | 16.5 |
| 5 | 16.0 | 6.0 | 4.0 | 0.0 | 0.5 | 1.0 | 4.5 | --- | 19.0 | 23.0 | 20.5 | 17.0 |
| 6 | 14.5 | 5.0 | 4.5 | 0.5 | 0.5 | 1.0 | 4.5 | 11.0 | 20.5 | 21.5 | 20.5 | 17.0 |
| 7 | --- | 4.0 | 4.0 | 0.5 | 0.5 | 1.0 | --- | 9.0 | 21.0 | --- | 21.0 | 17.0 |
| 8 | 14.5 | 4.0 | 3.5 | 0.5 | 0.5 | 1.0 | 3.0 | 8.0 | 20.0 | 23.0 | 21.5 | 17.0 |
| 9 | 14.0 | 3.5 | --- | 0.5 | 0.5 | 0.5 | 2.0 | 9.5 | 21.0 | 23.5 | 21.0 | 18.0 |
| 10 | 13.5 | 3.0 | 2.0 | 0.5 | --- | --- | 2.0 | 9.0 | 23.0 | 23.5 | 21.0 | 18.5 |
| 11 | 14.0 | --- | 1.5 | 0.5 | 0.5 | 1.5 | 3.5 | 9.0 | 20.5 | 23.0 | --- | 18.5 |
| 12 | 14.0 | 3.0 | 1.5 | 0.5 | 0.5 | 1.5 | 5.0 | --- | 18.5 | 22.0 | 21.5 | 19.5 |
| 13 | 14.5 | 3.5 | 1.5 | --- | 0.5 | 1.5 | 6.5 | 10.0 | 18.5 | 23.0 | 23.0 | 20.0 |
| 14 | 14.0 | 3.5 | 1.0 | 0.5 | 0.5 | 1.5 | --- | 10.0 | 18.5 | --- | 23.0 | 20.0 |
| 15 | 12.0 | 3.0 | 1.0 | 0.5 | 0.5 | 2.0 | 8.5 | 12.0 | 20.0 | 23.5 | 22.0 | 18.0 |
| 16 | 12.0 | 2.0 | --- | 0.5 | 0.5 | 1.5 | 6.5 | 13.0 | --- | 22.0 | 22.0 | 17.0 |
| 17 | 10.5 | 1.0 | 1.0 | 0.5 | --- | --- | 6.5 | 13.5 | 19.0 | 22.0 | 22.0 | 17.0 |
| 18 | 10.0 | --- | 1.0 | 0.5 | 0.5 | 0.5 | 8.5 | 14.0 | 19.0 | 22.0 | 22.0 | 16.5 |
| 19 | 9.0 | 3.5 | 0.5 | 0.5 | 1.0 | 0.5 | 8.5 | --- | 19.0 | 23.0 | 23.0 | 16.5 |
| 20 | 9.0 | 1.5 | 0.5 | --- | 0.5 | 1.0 | 8.0 | 14.5 | 18.5 | 21.5 | 23.0 | 16.0 |
| 21 | 9.5 | 2.0 | 0.5 | 1.0 | 0.5 | 1.5 | --- | 15.0 | 19.5 | 21.5 | 23.0 | 15.5 |
| 22 | 9.0 | 3.5 | 0.5 | 1.0 | 0.5 | 1.0 | 10.0 | 15.5 | 19.5 | 21.5 | 23.5 | 15.0 |
| 23 | 9.5 | 4.0 | --- | 0.5 | 0.5 | 1.0 | 10.0 | 16.5 | --- | 22.0 | 24.0 | 13.5 |
| 24 | 10.0 | 4.0 | 0.5 | 0.5 | --- | --- | 9.5 | 16.0 | 19.5 | 20.5 | 23.0 | 13.0 |
| 25 | 10.0 | --- | 0.5 | 0.5 | 0.5 | 1.5 | 9.0 | 15.0 | 19.5 | 20.0 | 22.0 | 12.0 |
| 26 | 10.5 | 4.0 | 0.5 | 1.0 | 0.5 | 1.0 | 9.0 | --- | 19.0 | 20.5 | 22.0 | 11.5 |
| 27 | 10.0 | 4.5 | 0.5 | --- | 0.5 | 1.0 | 9.5 | 14.5 | 18.5 | 21.0 | 23.0 | 13.0 |
| 28 | 9.0 | 5.5 | 0.5 | 1.0 | 0.5 | 1.0 | --- | 15.0 | 20.0 | --- | 22.0 | 13.5 |
| 29 | 8.5 | 6.0 | 0.5 | 1.0 | --- | 1.5 | 13.0 | 15.0 | 20.0 | 23.0 | 22.0 | 14.5 |
| 30 | 9.0 | 5.5 | --- | 1.0 | --- | 1.5 | 13.5 | 14.0 | 19.0 | 21.0 | 21.5 | 13.0 |
| 31 | 8.5 | --- | 0.5 | 1.0 | --- | --- | --- | 15.5 | --- | 21.0 | 22.0 | --- |
| AVERAGE | 12.0 | 4.0 | 2.0 | 0.5 | 0.5 | 1.0 | 6.5 | 12.5 | 19.5 | 21.5 | 22.0 | 16.5 |

## 04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, at gaging station at Vanduzee Street Bridge in Watertown, and 3.5 mi (5.6 km) upstream from Philomel Creek.

DRAINAGE AREA.--1,876 mi² (4,859 km²).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, August 1965 to September 1974.
Water temperatures: October 1955 to September 1959, July 1962 to March 1969.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | 1730 | 1800 | 5.5 | 390 | 60 | -- | 11 | -- | 1.4 | -- | 3.8 |
| NOV. | | | | | | | | | | | |
| 15... | 0900 | 2660 | 5.9 | 100 | 0 | -- | 11 | -- | 1.4 | -- | 4.0 |
| DEC. | | | | | | | | | | | |
| 19... | 1800 | 3640 | 5.2 | 360 | 40 | -- | 15 | -- | 1.5 | -- | 2.5 |
| JAN. | | | | | | | | | | | |
| 22... | 1400 | 3040 | 5.9 | 430 | 130 | -- | 14 | -- | 1.5 | -- | 2.9 |
| FEB. | | | | | | | | | | | |
| 20... | 0840 | 2820 | 6.2 | 340 | 70 | -- | 11 | -- | 1.0 | -- | 3.0 |
| MAR. | | | | | | | | | | | |
| 04... | 1530 | 5990 | 4.7 | -- | -- | -- | 12 | -- | 1.2 | -- | 3.0 |
| APR. | | | | | | | | | | | |
| 18... | 1500 | 13580 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | 0800 | 8580 | 2.7 | 480 | 50 | 9.0 | -- | 1.0 | -- | 1.6 | -- |
| MAY | | | | | | | | | | | |
| 22... | 0800 | 6710 | 3.5 | 420 | 60 | 10 | -- | 1.1 | -- | 2.0 | -- |
| JUNE | | | | | | | | | | | |
| 18... | 1500 | 4000 | 4.8 | 510 | 70 | 12 | -- | 1.1 | -- | 2.3 | -- |
| JULY | | | | | | | | | | | |
| 16... | 0830 | 2020 | -- | 430 | 70 | 12 | -- | 1.0 | -- | 2.9 | -- |
| AUG. | | | | | | | | | | | |
| 07... | 0800 | 5730 | -- | 490 | 80 | 16 | -- | 1.5 | -- | 1.8 | -- |
| SEP. | | | | | | | | | | | |
| 16... | 1545 | 1970 | -- | 410 | 40 | 14 | -- | 1.4 | -- | 4.2 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | -- | 1.1 | 31 | 0 | 25 | 12 | 1.5 | -- | .3 | .05 | .00 |
| NOV. | | | | | | | | | | | |
| 15... | -- | .8 | 28 | 0 | 23 | 13 | 1.5 | -- | .2 | .22 | .00 |
| DEC. | | | | | | | | | | | |
| 19... | -- | 1.2 | 36 | 0 | 30 | 12 | 2.3 | -- | .4 | .60 | .01 |
| JAN. | | | | | | | | | | | |
| 22... | -- | .7 | 42 | 0 | 34 | 11 | 2.9 | -- | .1 | .58 | .01 |
| FEB. | | | | | | | | | | | |
| 20... | -- | .7 | 27 | 0 | 22 | 12 | 2.7 | -- | .2 | .54 | .01 |
| MAR. | | | | | | | | | | | |
| 04... | -- | .9 | 31 | 0 | 25 | 11 | 3.4 | -- | .1 | .80 | .01 |
| APR. | | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | .8 | -- | 24 | 0 | 20 | 7.3 | 1.3 | .1 | -- | .56 | .01 |
| MAY | | | | | | | | | | | |
| 22... | .8 | -- | 27 | 0 | 22 | 8.9 | 1.5 | .2 | -- | .31 | .01 |
| JUNE | | | | | | | | | | | |
| 18... | .6 | -- | 27 | 0 | 22 | 8.0 | 1.0 | .2 | -- | .26 | .01 |
| JULY | | | | | | | | | | | |
| 16... | .7 | -- | 43 | 0 | 35 | 11 | 2.1 | -- | -- | .22 | .01 |
| AUG. | | | | | | | | | | | |
| 07... | .8 | -- | 34 | 0 | 28 | 11 | 1.6 | -- | -- | .19 | .01 |
| SEP. | | | | | | | | | | | |
| 16... | 1.0 | -- | 35 | 0 | 29 | 11 | 2.0 | -- | -- | .16 | .02 |

CONTINUED NEXT PAGE

## 04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | .03 | .23 | .26 | .32 | .00 | -- | .01 | 52 | 72 | 56 | 2 |
| NOV. | | | | | | | | | | | |
| 15... | .00 | .15 | .15 | .38 | .17 | -- | .00 | 52 | 80 | 47 | 8 |
| DEC. | | | | | | | | | | | |
| 19... | .06 | .12 | .18 | .80 | .02 | -- | .01 | 58 | 83 | 64 | 8 |
| JAN. | | | | | | | | | | | |
| 22... | .10 | .22 | .32 | .91 | .02 | -- | .01 | 60 | 60 | 54 | 1 |
| FEB. | | | | | | | | | | | |
| 20... | .07 | .17 | .24 | .79 | .01 | -- | .00 | 50 | 66 | 43 | 5 |
| MAR. | | | | | | | | | | | |
| 04... | .12 | .08 | .20 | .80 | .02 | -- | .00 | 52 | 68 | 53 | 15 |
| APR. | | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | .14 | .10 | .24 | .81 | .02 | .00 | -- | -- | 60 | 35 | 10 |
| MAY | | | | | | | | | | | |
| 22... | .06 | .30 | .36 | .68 | .02 | .00 | -- | -- | 75 | 54 | 8 |
| JUNE | | | | | | | | | | | |
| 18... | .03 | .33 | .36 | .63 | .03 | .01 | -- | -- | 50 | 42 | 3 |
| JULY | | | | | | | | | | | |
| 16... | .29 | .06 | .35 | .58 | .02 | .01 | -- | -- | 60 | 34 | 4 |
| AUG. | | | | | | | | | | | |
| 07... | .28 | .13 | .41 | .61 | .03 | .01 | -- | -- | 85 | 38 | 12 |
| SEP. | | | | | | | | | | | |
| 16... | .37 | .08 | .45 | .63 | .02 | .01 | -- | -- | 61 | 28 | 1 |

| DATE | FIXED NON-FILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 18... | 1 | 33 | 8 | 68 | 7.4 | 9.0 | -- | -- | 11.2 | 97 |
| NOV. | | | | | | | | | | |
| 15... | 1 | 37 | 14 | 85 | 7.2 | 4.5 | -- | -- | 13.6 | 106 |
| DEC. | | | | | | | | | | |
| 19... | 6 | 40 | 10 | 101 | 7.3 | .0 | -- | -- | 14.6 | 101 |
| JAN. | | | | | | | | | | |
| 22... | 9 | 40 | 8 | 107 | 6.7 | 1.0 | -- | -- | 15.2 | 108 |
| FEB. | | | | | | | | | | |
| 20... | 3 | 37 | 15 | 97 | 8.1 | .0 | -- | -- | 13.8 | 95 |
| MAR. | | | | | | | | | | |
| 04... | 9 | 33 | 8 | 80 | 7.8 | 1.5 | -- | -- | 13.2 | 95 |
| APR. | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24... | 7 | -- | -- | 85 | 7.6 | 6.9 | -- | -- | 11.3 | 92 |
| MAY | | | | | | | | | | |
| 22... | 6 | -- | -- | 76 | 8.0 | 13.0 | -- | -- | 9.6 | 92 |
| JUNE | | | | | | | | | | |
| 18... | 3 | -- | -- | 60 | 7.9 | 18.0 | -- | -- | 9.4 | 100 |
| JULY | | | | | | | | | | |
| 16... | 2 | -- | -- | 90 | 8.1 | 20.0 | 20 | 3 | 8.9 | 98 |
| AUG. | | | | | | | | | | |
| 07... | 1 | -- | -- | 85 | 8.0 | 25.0 | 20 | 4 | 8.9 | 98 |
| SEP. | | | | | | | | | | |
| 16... | 0 | -- | -- | 108 | 7.0 | 9.0 | 20 | 3 | 8.6 | 93 |

## 04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 18... | 14 | 1400 | 290 | -- | -- | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | |
| 15... | 15 | B87000 | B4200 | -- | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 19... | 15 | 3900 | -- | -- | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 22... | 13 | B1700 | B380 | -- | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 20... | 14 | B1500 | 3600 | -- | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 04... | 15 | 2000 | 800 | -- | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 18... | -- | 9600 | 570 | -- | -- | -- | -- | -- | -- | -- |
| 24... | 15 | B960 | 480 | -- | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 22... | 18 | 4400 | 1500 | -- | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 18... | 18 | 9600 | 570 | -- | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 16... | 17 | 2400 | 1000 | -- | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 07... | 21 | 13000 | 4800 | -- | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | |
| 16... | 18 | -- | B160 | 260 | 4.8 | -- | 1 | 10 | 1 | <.5 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04260505 BLACK RIVER BELOW WATERTOWN, N.Y.

LOCATION.--Lat 43°59'44", long 75°56'01", Jefferson County, at bridge on Interstate Highway 81 in Watertown, 0.9 mi (1.4 km) downstream from gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 mi² (4,859 km²) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1530 | E2010 | -- | -- | -- | -- | -- | -- | -- | .06 |
| DEC. 19... | 1515 | E3390 | -- | -- | -- | -- | -- | -- | -- | .62 |
| MAR. 04... | 1330 | E6260 | -- | -- | -- | -- | -- | -- | -- | .80 |
| APR. 23... | 1500 | E8530 | -- | 550 | 60 | -- | -- | -- | -- | 1.1 |
| MAY 21... | 1530 | E7520 | -- | -- | -- | -- | -- | -- | -- | .31 |
| JUNE 18... | 1400 | E4110 | -- | -- | -- | -- | -- | -- | -- | .25 |
| AUG. 06... | 1630 | E5730 | 5.5 | 500 | 60 | 33 | 0 | 27 | .3 | .18 |

| DATE | TOTAL NITRITE (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) | PERCENT SATURATION |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .00 | .32 | .39 | .01 | 90 | 7.4 | 9.0 | 7 | 12.0 | 104 |
| DEC. 19... | .01 | .22 | .85 | .02 | 112 | 6.9 | .0 | 2 | 15.0 | 104 |
| MAR. 04... | .04 | .32 | 1.2 | .02 | 93 | 8.1 | 1.5 | 7 | 13.2 | 95 |
| APR. 23... | .02 | .27 | 1.4 | .04 | 80 | 7.9 | 7.0 | 3 | 11.6 | 97 |
| MAY 21... | .01 | .32 | .64 | .03 | 78 | 8.1 | 12.0 | 2 | 10.2 | 95 |
| JUNE 18... | .01 | .35 | .61 | .03 | 63 | 7.6 | 18.0 | 3 | 9.2 | 98 |
| AUG. 06... | .01 | .35 | .54 | .03 | 82 | 8.1 | 23.0 | 3 | 8.3 | 98 |

| DATE | CHLOROPHYLL A (UG/L) | CHLOROPHYLL B (UG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 1.4 | -- | 1500 | 8300 | -- | -- | -- | -- | -- | <1 |
| DEC. 19... | .8 | -- | 2300 | -- | -- | 6.0 | -- | -- | -- | 1 |
| MAR. 04... | 1.0 | -- | 2900 | 60 | -- | 8.0 | -- | -- | -- | 1 |
| APR. 23... | .7 | 8.6 | 9800 | 180 | -- | -- | .00 | -- | -- | <1 |
| MAY 21... | 4.7 | 5.7 | 3600 | 6100 | 26 | 5.4 | -- | -- | -- | 1 |
| JUNE 18... | 1.6 | 6.0 | 7600 | 690 | 53 | 8.9 | -- | -- | -- | <1 |
| AUG. 06... | 6.0 | 6.0 | -- | 1000 | -- | 6.0 | .00 | .0 | 0 | 1 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

## 04260505 BLACK RIVER BELOW WATERTOWN, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL BARIUM (BA) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | -- | -- | -- | -- | 9 | <.5 | -- | -- | -- | -- |
| DEC.<br>19... | -- | -- | -- | -- | 9 | <.5 | -- | -- | -- | -- |
| MAR.<br>04... | -- | -- | -- | -- | 2 | <.5 | -- | -- | -- | -- |
| APR.<br>23... | 0 | 0 | 10 | 0 | 3 | <.5 | -- | 0 | 0 | -- |
| MAY<br>21... | -- | 0 | 20 | 60 | 59 | <.5 | -- | -- | -- | -- |
| JUNE<br>18... | -- | 0 | <10 | 0 | 1 | <.5 | -- | -- | -- | -- |
| AUG.<br>06... | -- | 0 | <10 | 10 | 1 | <.5 | 7 | 0 | -- | 2.0 |

## PESTICIDE ANALYSIS

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>18... | 1400 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>18... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>18... | 1400 | .0 | 0 | .0 | .0 | 1.5 | .0 | .7 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE<br>18... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |

## RADIOCHEMICAL ANALYSIS

| DATE | TIME | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

## 04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.

LOCATION.--Lat 44°07'48", long 76°20'10", Jefferson County, at end of U.S. Coast Guard Station dock in Cape Vincent and approximately 1,500 ft (457 m) downstream from village water intake.

DRAINAGE AREA.--292,000 mi$^2$ (756,000 km$^2$) approximately.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 30... | 1155 | .4 | 390 | 20 | -- | 34 | -- | 8.3 | -- | 13 | -- | 1.6 |
| NOV. | | | | | | | | | | | | |
| 26... | 0950 | .4 | 10 | 10 | -- | 40 | -- | 8.2 | -- | 14 | -- | 1.6 |
| APR. | | | | | | | | | | | | |
| 23... | 1050 | .0 | 90 | 10 | -- | 40 | -- | 8.6 | -- | 13 | -- | 1.6 |
| MAY | | | | | | | | | | | | |
| 20... | 1600 | .0 | 80 | 0 | 38 | -- | 7.7 | -- | 13 | -- | 1.6 | -- |
| JUNE | | | | | | | | | | | | |
| 17... | 1445 | .1 | 30 | 10 | 37 | -- | 7.6 | -- | 13 | -- | 1.2 | -- |
| JULY | | | | | | | | | | | | |
| 15... | 0930 | -- | 10 | 30 | 38 | -- | 8.3 | -- | 13 | -- | 1.4 | -- |
| AUG. | | | | | | | | | | | | |
| 13... | 1420 | -- | 0 | 50 | 34 | -- | 8.0 | -- | 12 | -- | 1.5 | -- |
| SEP. | | | | | | | | | | | | |
| 09... | 1240 | -- | 100 | 10 | 45 | -- | 7.2 | -- | 12 | -- | 1.2 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 30... | 110 | 0 | 90 | 25 | 27 | -- | .4 | .10 | .00 | .60 | .20 |
| NOV. | | | | | | | | | | | |
| 26... | 112 | 0 | 92 | 30 | 28 | -- | .3 | .02 | .01 | .13 | -- |
| APR. | | | | | | | | | | | |
| 23... | 113 | 0 | 93 | 26 | 27 | -- | .7 | .18 | .01 | .04 | .23 |
| MAY | | | | | | | | | | | |
| 20... | 107 | 0 | 88 | 30 | 28 | .2 | -- | .11 | .01 | .09 | .26 |
| JUNE | | | | | | | | | | | |
| 17... | 111 | 0 | 91 | 27 | 28 | .2 | -- | .13 | .01 | .08 | .24 |
| JULY | | | | | | | | | | | |
| 15... | 108 | 0 | [illegible] | [illegible] | [illegible] | -- | -- | [illegible] | [illegible] | [illegible] | [illegible] |
| AUG. | | | | | | | | | | | |
| 13... | 109 | -- | [illegible] | [illegible] | [illegible] | -- | -- | [illegible] | [illegible] | [illegible] | [illegible] |
| SEP. | | | | | | | | | | | |
| 09... | 107 | -- | [illegible] | [illegible] | [illegible] | -- | -- | [illegible] | [illegible] | [illegible] | [illegible] |

## 04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 30... | .28 | .47 | .02 | -- | .01 | 164 | 197 | 141 | 16 | 5 | 120 |
| NOV. | | | | | | | | | | | |
| 26... | .05 | .28 | .02 | -- | .01 | 178 | 195 | 154 | 43 | 43 | 130 |
| APR. | | | | | | | | | | | |
| 23... | .27 | .43 | .03 | -- | .01 | 173 | 216 | 192 | 3 | 2 | 140 |
| MAY | | | | | | | | | | | |
| 20... | .29 | .49 | .02 | .00 | -- | -- | 230 | 171 | 4 | 3 | -- |
| JUNE | | | | | | | | | | | |
| 17... | .29 | .43 | .02 | .00 | -- | -- | 215 | 146 | 0 | 0 | -- |
| JULY | | | | | | | | | | | |
| 15... | .43 | .48 | .03 | .01 | -- | -- | 221 | 157 | 2 | 0 | -- |
| AUG. | | | | | | | | | | | |
| 13... | .38 | .45 | .02 | .01 | -- | -- | 203 | 144 | 0 | 0 | -- |
| SEP. | | | | | | | | | | | |
| 09... | .29 | .32 | .01 | .01 | -- | -- | 213 | 159 | 0 | 0 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 30... | 29 | 323 | 7.8 | -- | -- | 11 | .0 | -- | -- | -- | -- |
| NOV. | | | | | | | | | | | |
| 26... | 42 | 326 | 8.0 | -- | -- | 6 | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 23... | 43 | 317 | 7.9 | -- | -- | 6 | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 20... | -- | 320 | 8.1 | -- | -- | 8 | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 17... | -- | 318 | 8.3 | -- | -- | 7 | .0 | 1 | 10 | 6 | <.5 |
| JULY | | | | | | | | | | | |
| 15... | -- | 321 | 8.5 | 1 | 2 | 8 | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | | |
| 13... | -- | 305 | -- | 1 | 1 | 7 | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 09... | -- | 319 | -- | 0 | 2 | 8 | -- | 1 | 0 | 1 | <.5 |

## 04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.

LOCATION.--Lat 44°20'05", long 75°28'17", St. Lawrence County, at bridge on U.S. Highway 11, 50 ft (15 m) upstream from dam in Gouverneur.

DRAINAGE AREA.--720 $mi^2$ (1,865 $km^2$).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | 0900 | -- | -- | -- | -- | -- | -- | -- | .18 | .00 |
| DEC. 04... | 0930 | -- | -- | -- | -- | -- | -- | -- | .29 | .00 |
| MAR. 04... | 0915 | -- | -- | -- | -- | -- | -- | -- | .51 | .02 |
| APR. 23... | 0900 | -- | 380 | 80 | -- | -- | -- | -- | .47 | .02 |
| MAY 21... | 0930 | -- | -- | -- | -- | -- | -- | -- | .32 | .01 |
| JUNE 18... | 0900 | -- | -- | -- | -- | -- | -- | -- | .26 | .01 |
| AUG. 06... | 1000 | 5.3 | 500 | 60 | 31 | 0 | 25 | .3 | .24 | .02 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | CHLORO-PHYLL A (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | .35 | .54 | .02 | 110 | 8.6 | 10.0 | 3 | 8.2 | 73 | 1.9 |
| DEC. 04... | .10 | .40 | -- | 62 | 7.8 | 3.0 | 3 | 9.8 | 74 | .0 |
| MAR. 04... | .42 | .95 | .03 | 75 | 8.0 | 1.0 | 10 | 11.2 | 79 | .6 |
| APR. 23... | .27 | .76 | .02 | 78 | 7.9 | 10.0 | 2 | 10.0 | 89 | 3.7 |
| MAY 21... | .68 | 1.0 | .01 | 63 | 7.8 | 1.0 | 1 | 11.2 | 79 | 3.3 |
| JUNE 18... | .41 | .68 | .02 | 95 | 7.7 | 18.0 | 3 | 6.2 | 66 | 1.2 |
| AUG. 06... | .42 | .68 | .03 | 105 | 7.8 | 20.0 | 4 | 7.6 | 94 | 5.0 |

| DATE | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL BARIUM (BA) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | -- | 3900 | 1200 | -- | 6.9 | -- | -- | -- | <1 | -- |
| DEC. 04... | -- | B1300 | 1000 | -- | 13 | -- | -- | -- | 0 | -- |
| MAR. 04... | -- | 2000 | 470 | -- | 4.5 | -- | -- | -- | 1 | -- |
| APR. 23... | 5.3 | 2700 | 770 | -- | -- | .00 | -- | -- | <1 | 0 |
| MAY 21... | 9.5 | 3700 | 730 | 87 | 5.3 | -- | -- | -- | <1 | -- |
| JUNE 18... | .0 | 4200 | 340 | 77 | 10 | -- | -- | -- | 4 | -- |
| AUG. 06... | 9.0 | -- | 1400 | -- | 11 | .00 | .0 | 0 | <1 | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL CADMIUM (CD) (UG/L) | TOTAL CHROMIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELENIUM (SE) (UG/L) | TOTAL SILVER (AG) (UG/L) | TOTAL VANADIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 16... | -- | -- | -- | 190 | <.5 | -- | -- | -- | -- |
| DEC. 04... | -- | -- | -- | 180 | .8 | -- | -- | -- | -- |
| MAR. 04... | -- | -- | -- | 86 | <.5 | -- | -- | -- | -- |
| APR. 23... | 0 | 0 | 10 | 3 | <.5 | -- | 0 | 0 | -- |
| MAY 21... | 0 | 10 | 10 | 1 | <.5 | -- | -- | -- | -- |
| JUNE 18... | 0 | 0 | 0 | 1 | <.5 | -- | -- | -- | -- |
| AUG. 06... | 0 | 0 | 90 | 210 | <.5 | 5 | 0 | -- | 2.5 |

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLORDANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DIAZINON (UG/L) | DIELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTACHLOR (UG/L) | HEPTACHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | 0930 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALATHION (UG/L) | METHYL PARATHION (UG/L) | METHYL TRITHION (UG/L) | PARATHION (UG/L) | PCB (UG/L) | TOXAPHENE (UG/L) | TRITHION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DEPOSITS (UG/KG) | CHLORDANE IN BOTTOM DEPOSITS (UG/KG) | DDD IN BOTTOM DEPOSITS (UG/KG) | DDE IN BOTTOM DEPOSITS (UG/KG) | DDT IN BOTTOM DEPOSITS (UG/KG) | DIAZINON IN BOTTOM DEPOSITS (UG/KG) | DIELDRIN IN BOTTOM DEPOSITS (UG/KG) | ENDRIN IN BOTTOM DEPOSITS (UG/KG) | ETHION IN BOTTOM DEPOSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | 0930 | .0 | -- | -- | -- | -- | .0 | .3 | .0 | .0 |
| AUG. 06... | 1000 | .0 | 0 | .0 | .0 | 5.4 | .0 | .3 | .0 | .0 |

| DATE | HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG) | HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG) | LINDANE IN BOTTOM DEPOSITS (UG/KG) | MALATHION IN BOTTOM DEPOSITS (UG/KG) | METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG) | METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG) | PARATHION IN BOTTOM DEPOSITS (UG/KG) | PCB IN BOTTOM DEPOSITS (UG/KG) | TOXAPHENE IN BOTTOM DEPOSITS (UG/KG) | TRITHION IN BOTTOM DEPOSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 21... | -- | .0 | -- | .0 | .0 | .0 | .0 | 700 | -- | .0 |
| AUG. 06... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 78 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DISSOLVED GROSS ALPHA AS U-NAT. (UG/L) | DISSOLVED GROSS BETA AS CS-137 (PC/L) | DISSOLVED GHOSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILTRABLE RESIDUE (MG/L) | SUSPENDED GROSS ALPHA AS U-NAT. (UG/L) | SUSPENDED GROSS BETA AS CS-137 (PC/L) | SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 06... | 1000 | 1.2 | 3.3 | 2.7 | 77 | <.4 | .6 | .5 | 5 |

## 04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.

LOCATION.--Lat 44°41'03", long 75°29'20", St. Lawrence County, at bridge on State Highway 37 in Ogdensburg and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--1,602 mi² (4,149 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 0840 | 4.3 | 290 | 30 | -- | 14 | -- | 3.9 | -- | 3.0 | -- | 1.1 |
| NOV. 27... | 1400 | 3.9 | 240 | 10 | -- | 16 | -- | 4.2 | -- | 3.0 | -- | 1.2 |
| APR. 24... | -- | 3.2 | 500 | 70 | 22 | -- | 3.4 | -- | 1.2 | -- | .9 | -- |
| MAY 20... | 1430 | 2.2 | 230 | 40 | 12 | -- | 3.1 | -- | 1.6 | -- | .9 | -- |
| JUNE 19... | 1235 | 3.1 | 270 | 50 | 16 | -- | 4.3 | -- | 2.5 | -- | 1.1 | -- |
| JULY 16... | 1330 | -- | 240 | 30 | 14 | -- | 3.2 | -- | 2.5 | -- | .8 | -- |
| AUG. 12... | 1000 | -- | 300 | 40 | 14 | -- | 3.5 | -- | 2.6 | -- | 1.1 | -- |
| SEP. 10... | 1000 | -- | 320 | 30 | 14 | -- | 3.0 | -- | 3.0 | -- | .8 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 44 | 0 | 36 | 18 | 3.0 | -- | .3 | .24 | .00 | .00 | .27 |
| NOV. 27... | 43 | 0 | 35 | 20 | 2.4 | -- | .4 | .31 | .00 | .00 | .21 |
| APR. 24... | 33 | 0 | 27 | 12 | 2.2 | .2 | -- | .33 | .06 | .13 | .19 |
| MAY 20... | 40 | 0 | 33 | 11 | 1.9 | .2 | -- | .16 | .01 | .07 | .49 |
| JUNE 19... | 49 | 0 | 40 | 14 | 2.2 | .2 | -- | .19 | .01 | .13 | .40 |
| JULY 16... | 44 | 0 | 36 | 15 | 1.9 | -- | -- | .16 | .01 | .21 | .22 |
| AUG. 12... | 37 | -- | 30 | 19 | 3.0 | -- | -- | .20 | .01 | .24 | .11 |
| SEP. 10... | 40 | -- | 33 | 13 | 2.5 | -- | -- | .08 | .00 | .21 | .17 |

## 04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | .27 | .52 | .01 | -- | .01 | 69 | 157 | 124 | 4 | 2 | 51 |
| NOV. 27... | .21 | .52 | .02 | -- | .01 | 72 | 77 | 49 | 4 | 1 | 57 |
| APR. 24... | .32 | .71 | .03 | .01 | -- | -- | 62 | 39 | 6 | 5 | -- |
| MAY 20... | .56 | .73 | .02 | .01 | -- | -- | 69 | 45 | 4 | 4 | -- |
| JUNE 19... | .53 | .73 | .03 | .01 | -- | -- | 96 | 80 | 3 | 0 | -- |
| JULY 16... | .43 | .60 | .03 | .01 | -- | -- | 84 | 50 | 3 | 0 | -- |
| AUG. 12... | .35 | .56 | .02 | .01 | -- | -- | 98 | 63 | 6 | 3 | -- |
| SEP. 10... | .38 | .46 | .02 | .01 | -- | -- | 136 | 106 | 2 | 1 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 15 | 128 | 7.1 | -- | -- | 2 | .0 | -- | -- | -- | -- |
| NOV. 27... | 22 | 123 | 7.1 | -- | -- | 18 | .0 | -- | -- | -- | -- |
| APR. 24... | -- | 89 | 7.1 | -- | -- | 13 | .0 | -- | -- | -- | -- |
| MAY 20... | -- | 101 | 7.8 | -- | -- | 18 | .0 | -- | -- | -- | -- |
| JUNE 19... | -- | 128 | 7.4 | -- | -- | 18 | .0 | <1 | 0 | 3 | <.5 |
| JULY 16... | -- | 126 | 7.5 | 20 | 2 | 17 | -- | -- | -- | -- | -- |
| AUG. 12... | -- | 120 | -- | 20 | 2 | 14 | -- | -- | -- | -- | -- |
| SEP. 10... | -- | 108 | -- | 4 | 4 | 13 | -- | 0 | 0 | 1 | <.5 |

### 04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.
(NATIONAL STREAM-QUALITY ACCOUNTING NETWORK AND INTERNATIONAL HYDROLOGICAL DECADE RIVER STATION)

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County, Ontario - St. Lawrence County, New York, at Robert Moses - Robert H. Saunders Power Dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 mi (4.7 km) upstream from Grass River, 6.2 mi (10.0 km) upstream from Raquette River, and 5.9 mi (9.5 km) northeast of Massena, N.Y.

DRAINAGE AREA.--299,000 mi² (774,410 km²).

PERIOD OF RECORD.--Chemical analyses: January to September 1974. Water temperatures: October 1955 to October 1958, January 1966 to September 1973. Prior to October 1970, published as "near Massena, N.Y."

EXTREMES.--1973-74:
Water temperatures: Maximum, 22.0°C on many days during August; minimum, 0.5°C on many days winter period.

**Period of record: Maximum, 24.5°C on several days during August and September 1973; minimum, freezing point on many days during winter periods most years.**

REMARKS.--Measurements made approximately 68 ft (21 m) below normal forebay level. Records for period October 1955 to October 1958 collected at Aluminum Company of America Massena Canal Power Station and are unpublished.

COOPERATION.--Water temperature record furnished by the Power Authority of the State of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. 22... | 1115 | 250000 | .6 | 39 | 8.5 | 13 | 1.5 | 108 | 0 | 89 | 27 |
| FEB. 20... | 1500 | 280000 | .4 | 39 | 8.0 | 12 | 1.5 | 114 | 0 | 94 | 26 |
| MAR. 06... | 1545 | 300000 | .4 | 38 | 7.5 | 13 | 1.5 | 110 | 0 | 90 | 24 |
| APR. 25... | 1000 | 310000 | .0 | 40 | 8.0 | 12 | 1.4 | 112 | 0 | 92 | 26 |
| MAY 23... | 1000 | 300000 | .2 | 38 | 7.4 | 13 | 1.5 | 107 | 0 | 88 | 25 |
| JUNE 20... | 1000 | 330000 | .1 | 41 | 7.8 | 13 | 1.5 | 111 | 0 | 91 | 29 |
| JULY 17... | 1000 | 337000 | .3 | 35 | 7.3 | 13 | 2.4 | 111 | 0 | 91 | 26 |
| AUG. 08... | 1425 | 341000 | .4 | 36 | 7.8 | 13 | 1.5 | 108 | 0 | 89 | 26 |
| SEP. 24... | 1145 | 311000 | .4 | 36 | 8.6 | 13 | 1.6 | 101 | 0 | 83 | 24 |

| DATE | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SUS-PENDED SEDI-MENT (MG/L) | SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. 22... | 26 | .2 | .24 | .00 | .31 | .55 | 2.0 | 190 | 166 | -- | -- |
| FEB. 20... | 27 | .2 | .25 | .00 | .27 | .52 | .02 | 205 | 170 | -- | -- |
| MAR. 06... | 27 | .2 | .27 | .00 | .11 | .38 | .02 | 219 | 166 | -- | -- |
| APR. 25... | 27 | .2 | -- | -- | .32 | .82 | .02 | 186 | 170 | -- | -- |
| MAY 23... | 28 | .2 | -- | -- | -- | -- | .02 | 231 | 166 | -- | -- |
| JUNE 20... | 26 | .2 | -- | -- | .36 | .48 | .02 | 208 | 173 | -- | -- |
| JULY 17... | 24 | .1 | -- | -- | .43 | .53 | .03 | 191 | 164 | -- | -- |
| AUG. 08... | 27 | .2 | -- | -- | .36 | .47 | .03 | 201 | 165 | -- | -- |
| SEP. 24... | 28 | .1 | -- | -- | .25 | .33 | .03 | 199 | 162 | 4 | 3350 |

## 04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.—Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JAN. 22... | 130 | 41 | 340 | 7.7 | .5 | 5 | 11.0 | 78 | B2 | -- | -- |
| FEB. 20... | 130 | 37 | 310 | 8.4 | 6.0 | 8 | 11.0 | 78 | B3 | B1 | -- |
| MAR. 06... | 130 | 36 | 266 | 8.5 | 2.0 | 1 | 12.8 | 93 | B9 | 29 | -- |
| APR. 25... | 130 | 41 | 388 | 8.2 | 5.5 | 3 | -- | -- | B4 | B1 | -- |
| MAY 23... | 130 | 36 | 250 | 8.0 | 10.0 | 2 | 10.8 | 96 | B3 | B2 | -- |
| JUNE 20... | 130 | 43 | 379 | 8.5 | 16.0 | 2 | 8.0 | 82 | B8 | B2 | 3.2 |
| JULY 17... | 120 | 29 | 313 | 8.5 | 20.0 | 3 | 7.7 | 85 | B2 | B5 | -- |
| AUG. 08... | 120 | 33 | 360 | 8.3 | 21.5 | 4 | -- | -- | -- | -- | -- |
| SEP. 24... | 130 | 42 | 330 | 8.0 | 17.5 | 1 | -- | -- | <1 | <1 | 2.6 |

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | SUS-PENDED ARSENIC (AS) (UG/L) | DIS-SOLVED ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | SUS-PENDED CAD-MIUM (CD) (UG/L) | DIS-SOLVED CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | SUS-PENDED CHRO-MIUM (CR) (UG/L) | DIS-SOLVED CHRO-MIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 06... | 1545 | 1 | -- | 2 | 0 | -- | 0 | -- | -- | -- | 0 |
| APR. 25... | 1000 | 3 | -- | -- | -- | -- | 1 | -- | -- | 0 | -- |
| JUNE 20... | 1000 | 1 | -- | <1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| AUG. 27... | 1200 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| SEP. 24... | 1145 | 1 | 0 | 1 | 0 | 0 | 1 | <10 | -- | 0 | 2 |

| DATE | SUS-PENDED COBALT (CO) (UG/L) | DIS-SOLVED COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) | SUS-PENDED COPPER (CU) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | TOTAL IRON (FE) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | TOTAL LEAD (PB) (UG/L) | SUS-PENDED LEAD (PB) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 06... | -- | 0 | 10 | 0 | 10 | -- | -- | 3 | -- | 0 | -- |
| APR. 25... | -- | 0 | -- | -- | 10 | -- | 20 | -- | -- | 2 | -- |
| JUNE 20... | 0 | 0 | 10 | 10 | 0 | 100 | 40 | 0 | 0 | 1 | 10 |
| AUG. 27... | 0 | 0 | 10 | 10 | 0 | 540 | 10 | 4 | 4 | 0 | 20 |
| SEP. 24... | 2 | 0 | 0 | 0 | 0 | 140 | 20 | 4 | 4 | 0 | 30 |

| DATE | SUS-PENDED MAN-GANESE (MN) (UG/L) | DIS-SOLVED MAN-GANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | SUS-PENDED SELE-NIUM (SE) (UG/L) | DIS-SOLVED SELE-NIUM (SE) (UG/L) | TOTAL ZINC (ZN) (UG/L) | SUS-PENDED ZINC (ZN) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAR. 06... | -- | -- | <.5 | <.5 | 1 | -- | <1 | 70 | -- | 70 |
| APR. 25... | -- | 0 | -- | <.5 | -- | -- | -- | -- | -- | 20 |
| JUNE 20... | 0 | 20 | <.5 | <.5 | 0 | 0 | 1 | 30 | 10 | 20 |
| AUG. 27... | 20 | 0 | <.5 | <.5 | 0 | 0 | 0 | 10 | 0 | 20 |
| SEP. 24... | 30 | 0 | <.5 | <.5 | 3 | -- | <2 | 10 | 0 | 10 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### RADIOCHEMICAL ANALYSES

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | DIS-SOLVED RA-226 (RADON METHOD) (PC/L) | DIS-SOLVED URANIUM (U) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FEB.<br>20... | 1500 | 3.3 | 5.2 | 4.2 | 200 | <.4 | <.4 | <.4 | 1 | .03 | .22 |
| AUG.<br>27... | 1200 | <2.2 | 4.8 | 3.9 | 200 | <.4 | .5 | .5 | 4 | .05 | .27 |

### TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

(ONCE-DAILY MEASUREMENT)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18.0 | 12.0 | 6.0 | 1.0 | 0.5 | 1.0 | 1.0 | 7.0 | 12.0 | 16.0 | 21.0 | 21.5 |
| 2 | 18.0 | 12.0 | 6.0 | 1.0 | 0.5 | 1.0 | 1.0 | 7.0 | 12.5 | 16.0 | 21.0 | 21.5 |
| 3 | 18.0 | 11.5 | 5.5 | 1.0 | 0.5 | 1.0 | 1.5 | 7.0 | 13.0 | 17.0 | 21.0 | 21.0 |
| 4 | 18.0 | 11.0 | 6.0 | 1.0 | 0.5 | 1.0 | 2.0 | 7.0 | 13.5 | 17.0 | 21.0 | 20.5 |
| 5 | 18.0 | 10.5 | 6.0 | 1.0 | 0.5 | 1.0 | 2.0 | 7.0 | 13.5 | 17.0 | 21.0 | 20.5 |
| 6 | 17.5 | 10.0 | 6.0 | 1.0 | 0.5 | 1.0 | 2.0 | 7.0 | 14.0 | 17.0 | 21.0 | 20.5 |
| 7 | 17.0 | 10.0 | 5.5 | 1.0 | 0.5 | 1.0 | 2.0 | 7.0 | 14.5 | 17.5 | 21.0 | 20.5 |
| 8 | 17.0 | 9.5 | 5.5 | --- | 0.5 | 1.0 | 2.0 | 7.0 | 15.0 | 18.0 | 21.0 | 20.5 |
| 9 | 17.0 | 9.0 | 5.5 | 0.5 | 0.5 | 1.0 | 2.0 | 7.0 | 15.0 | 19.0 | 21.0 | 20.5 |
| 10 | 17.0 | 8.5 | 5.5 | 0.5 | 0.5 | 1.0 | 2.0 | 7.0 | 15.5 | 19.0 | 21.0 | 20.0 |
| 11 | 16.5 | 8.0 | 5.5 | 0.5 | 0.5 | 1.0 | 2.0 | 7.0 | 16.0 | 19.0 | 21.5 | 19.5 |
| 12 | 16.5 | 8.0 | 5.0 | 0.5 | 0.5 | 1.0 | 2.0 | 7.0 | 15.5 | 19.5 | 22.0 | 19.5 |
| 13 | 16.0 | 8.0 | 4.5 | 0.5 | 0.5 | 1.0 | 2.5 | 7.5 | 15.5 | 20.0 | 22.0 | 19.5 |
| 14 | 16.0 | 8.0 | 4.5 | 0.5 | 0.5 | 1.0 | 3.0 | 7.5 | 16.0 | 20.0 | 22.0 | 19.0 |
| 15 | 16.0 | 8.0 | 4.5 | 0.5 | 0.5 | 1.0 | 3.0 | 8.0 | 16.0 | 20.5 | 22.0 | 19.0 |
| 16 | 15.5 | 8.0 | 4.0 | 0.5 | 0.5 | 1.0 | 3.5 | 9.0 | 16.0 | 20.0 | 22.0 | 19.0 |
| 17 | 15.0 | 7.5 | 3.5 | 0.5 | 0.5 | 1.0 | 3.5 | 9.0 | 16.0 | 20.0 | 22.0 | 19.0 |
| 18 | 15.0 | 7.0 | 2.5 | 0.5 | 0.5 | 1.0 | 4.0 | 9.0 | 16.0 | 20.0 | 22.0 | 19.0 |
| 19 | 15.0 | 7.0 | 2.5 | 0.5 | 0.5 | 1.0 | 4.0 | 9.5 | 16.0 | 20.0 | 22.0 | 19.0 |
| 20 | 14.5 | 7.0 | 1.5 | 0.5 | 0.5 | 1.0 | 4.5 | 9.5 | 16.5 | 20.0 | 22.0 | 19.0 |
| 21 | 14.0 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 5.0 | 10.0 | 16.5 | 20.0 | 22.0 | 18.5 |
| 22 | 14.0 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 5.0 | 10.0 | 16.5 | 20.0 | 21.5 | 18.0 |
| 23 | 14.0 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 5.5 | 10.0 | 17.0 | 20.5 | 22.0 | 18.0 |
| 24 | 14.0 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 5.5 | 10.5 | 17.0 | 20.5 | 22.0 | 17.5 |
| 25 | 13.5 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 5.0 | 10.5 | 17.0 | 20.0 | 22.0 | 17.0 |
| 26 | 13.5 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 5.5 | 11.0 | 17.0 | 20.0 | 22.0 | 17.0 |
| 27 | 13.0 | 6.5 | 1.0 | 0.5 | 1.0 | 1.0 | 6.0 | 11.0 | 16.5 | 20.5 | 22.0 | 17.0 |
| 28 | 13.0 | 6.5 | 1.0 | 1.0 | 1.0 | 1.0 | 6.0 | 11.0 | 17.0 | 20.5 | 22.0 | 16.5 |
| 29 | 12.5 | 6.5 | 1.0 | 1.0 | --- | 1.0 | 7.0 | 11.0 | 17.0 | 20.5 | 22.0 | 16.5 |
| 30 | 12.0 | 6.5 | 1.0 | 1.0 | --- | 1.0 | 7.0 | 11.5 | 16.5 | 20.5 | 22.0 | 16.5 |
| 31 | 12.0 | --- | 1.0 | 0.5 | --- | 1.0 | --- | 12.0 | --- | 20.5 | 22.0 | --- |
| AVERAGE | 15.5 | 8.0 | 3.5 | 0.5 | 0.5 | 1.0 | 3.5 | 8.5 | 15.5 | 19.0 | 21.5 | 19.0 |

## 04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT.-NEAR MASSENA, N.Y.--Continued

### PHYTOPLANKTON ANALYSES, JANUARY TO SEPTEMBER 1974

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPOSITION | DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPOSITION |
|---|---|---|---|---|---|---|---|
| Aug. 27 1974 | 5,500 | Melosira | 44 | Sept. 24 1974 | 3,800 | Oscillatoria | 63 |
| | | Lyngbya | 30 | | | Coelastrum | 15 |
| | | Anacystis | 8 | | | Scenedesmus | 8 |
| | | Chlorococcum | 5 | | | Anacystis | 6 |
| | | Anabaena | 3 | | | Agmenellum | 2 |
| | | Crucigenia | 3 | | | Kirchneriella | 2 |
| | | Asterionella | 2 | | | Ankistrodesmus | 2 |
| | | Cyclotella | 2 | | | Navicula | 1 |
| | | Scenedesmus | 2 | | | Cyclotella | 1 |
| | | | | | | Asterionella | <1 |
| | | | | | | Tetraedron | <1 |

### PERIPHYTON ANALYSES, AUGUST TO OCTOBER 1974

| DATE | UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M | UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M | PERIPHYTON BIOMASS ASH WEIGHT G/SQ M |
|---|---|---|---|
| Aug. 29 - Sep. 24 | 7.3 | 1.8 | 14 |
| Sep. 24 - Oct. 23 | -- | -- | .80 |

## 04265437 GRASS RIVER ABOVE MASSENA, N.Y.

LOCATION.--Lat 44°55'20", long 74°55'36", St. Lawrence County, at bridge on State Highway 37, 0.4 mi (0.6 km) west of State Highway 56, 0.7 mi (1.1 km) west of Massena, and 3.0 mi (4.8 km) upstream from Massena Power Canal.

DRAINAGE AREA.--628 mi² (1,627 km²).

PERIOD OF RECORD.--Chemical analyses: May to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS- SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN- GANESE (MN) (UG/L) | TOTAL CAL- CIUM (CA) (MG/L) | DIS- SOLVED CAL- CIUM (CA) (MG/L) | TOTAL MAG- NE- SIUM (MG) (MG/L) | DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS- SOLVED SODIUM (NA) (MG/L) | TOTAL PO- TAS- SIUM (K) (MG/L) | DIS- SOLVED PO- TAS- SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 1015 | 5.1 | 310 | 20 | -- | 11 | -- | 4.3 | -- | 3.0 | -- | .8 |
| NOV. | | | | | | | | | | | | |
| 27... | 1230 | 5.6 | 250 | 10 | -- | 13 | -- | 4.7 | -- | 2.5 | -- | 1.1 |
| APR. | | | | | | | | | | | | |
| 24... | 1300 | 4.6 | 260 | 20 | 9.2 | -- | 3.4 | -- | 1.3 | -- | .7 | -- |
| MAY | | | | | | | | | | | | |
| 20... | 1315 | 3.3 | 340 | 10 | 12 | -- | 3.9 | -- | 1.6 | -- | 2.6 | -- |
| JUNE | | | | | | | | | | | | |
| 19... | 1145 | 4.7 | 470 | 40 | 14 | -- | 4.2 | -- | 2.0 | -- | .6 | -- |
| JULY | | | | | | | | | | | | |
| 16... | 1215 | -- | 440 | 40 | 12 | -- | 3.6 | -- | 2.5 | -- | .6 | -- |
| AUG. | | | | | | | | | | | | |
| 12... | 1115 | -- | 430 | 50 | 11 | -- | 4.2 | -- | 1.4 | -- | 1.5 | -- |
| SEP. | | | | | | | | | | | | |
| 10... | 1100 | -- | 570 | 10 | 16 | -- | 4.4 | -- | 2.4 | -- | .6 | -- |

| DATE | BICAR- BONATE (HCO3) (MG/L) | CAR- BONATE (CO3) (MG/L) | ALKA- LINITY AS CACO3 (MG/L) | DIS- SOLVED SULFATE (SO4) (MG/L) | DIS- SOLVED CHLO- RIDE (CL) (MG/L) | TOTAL FLUO- RIDE (F) (MG/L) | DIS- SOLVED FLUO- RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 41 | 0 | 34 | 12 | 2.5 | -- | .3 | .09 | .00 | .00 | .24 |
| NOV. | | | | | | | | | | | |
| 27... | 36 | 0 | 30 | 20 | 2.6 | -- | .3 | .29 | .00 | .00 | .16 |
| APR. | | | | | | | | | | | |
| 24... | 33 | 0 | 27 | 13 | 1.9 | .3 | -- | .40 | .03 | .10 | .16 |
| MAY | | | | | | | | | | | |
| 20... | 41 | 0 | 34 | 12 | 3.2 | .2 | -- | .12 | .03 | .08 | .19 |
| JUNE | | | | | | | | | | | |
| 19... | 43 | 0 | 35 | 11 | 1.7 | .3 | -- | .13 | .01 | .12 | .39 |
| JULY | | | | | | | | | | | |
| 16... | 43 | 0 | 35 | 13 | 1.8 | -- | -- | .03 | .01 | .26 | .21 |
| AUG. | | | | | | | | | | | |
| 12... | 40 | -- | 33 | 13 | 2.0 | -- | -- | .10 | .01 | .33 | .18 |
| SEP. | | | | | | | | | | | |
| 10... | 51 | -- | 42 | 10 | 2.6 | -- | -- | .03 | .00 | .17 | .14 |

## 04265437 GRASS RIVER ABOVE MASSENA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | .24 | .34 | .00 | -- | .01 | 59 | 70 | 43 | 8 | 5 | 45 |
| NOV. 27... | .16 | .45 | .02 | -- | .02 | 68 | 81 | 58 | 4 | 2 | 52 |
| APR. 24... | .26 | .69 | .02 | .01 | -- | -- | 64 | 34 | 7 | 3 | -- |
| MAY 20... | .27 | .42 | .02 | .01 | -- | -- | 98 | 63 | 5 | 4 | -- |
| JUNE 19... | .51 | .65 | .04 | .02 | -- | -- | 84 | 52 | 2 | 1 | -- |
| JULY 16... | .47 | .51 | .04 | .02 | -- | -- | 81 | 40 | 3 | 3 | -- |
| AUG. 12... | .51 | .62 | .05 | .03 | -- | -- | 99 | 69 | 1 | 1 | -- |
| SEP. 10... | .31 | .34 | .02 | .01 | -- | -- | 81 | 61 | 2 | 0 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 12 | 105 | 7.2 | -- | -- | 16 | .0 | -- | -- | -- | -- |
| NOV. 27... | 22 | 115 | 7.2 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| APR. 24... | -- | 93 | 7.3 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| MAY 20... | -- | 109 | 7.6 | -- | -- | 19 | .0 | -- | -- | -- | -- |
| JUNE 19... | -- | 107 | 7.5 | -- | -- | 23 | .0 | 1 | 10 | 3 | <.5 |
| JULY 16... | -- | 100 | 7.7 | 60 | 2 | 24 | -- | -- | -- | -- | -- |
| AUG. 12... | -- | 105 | -- | 40 | 4 | 27 | -- | -- | -- | -- | -- |
| SEP. 10... | -- | 116 | -- | 20 | 2 | 18 | -- | 0 | 0 | 4 | <.5 |

## 04265432 GRASS RIVER BELOW MASSENA CENTER, N.Y.

LOCATION.--Lat 44°57'52", long 74°47'53", St. Lawrence County, off south bank at end of road off South Grass River Road, 0.5 mi (0.8 km) west of Haverstock Road, 1.7 mi (2.7 km) east of Massena Center, 2.4 mi (3.9 km) downstream from bridge on State Highway 131, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--641 mi$^2$ (1,660 km$^2$).

PERIOD OF RECORD.--Chemical analyses: April to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | | |
| 31... | 1205 | 5.1 | 710 | 50 | -- | 20 | -- | 6.7 | -- | 8.0 | -- | 1.2 |
| NOV. | | | | | | | | | | | | |
| 27... | 1100 | 5.3 | 310 | 10 | -- | 17 | -- | 6.0 | -- | 4.0 | -- | 1.2 |
| APR. | | | | | | | | | | | | |
| 24... | 1300 | 4.4 | 200 | 20 | 9.7 | -- | 3.5 | -- | 1.9 | -- | .9 | -- |
| MAY | | | | | | | | | | | | |
| 20... | 1200 | 3.2 | 500 | 50 | 13 | -- | 4.3 | -- | 2.5 | -- | .9 | -- |
| JUNE | | | | | | | | | | | | |
| 19... | 1000 | 4.0 | 560 | 20 | 24 | -- | 4.9 | -- | 4.0 | -- | 1.0 | -- |
| JULY | | | | | | | | | | | | |
| 16... | 1000 | -- | 330 | 50 | 20 | -- | 4.6 | -- | 6.0 | -- | .9 | -- |
| AUG. | | | | | | | | | | | | |
| 12... | 1245 | -- | 470 | 40 | -- | -- | 4.2 | -- | 2.2 | -- | 1.6 | -- |
| SEP. | | | | | | | | | | | | |
| 10... | 1300 | -- | 410 | 10 | 17 | -- | 4.1 | -- | 4.5 | -- | 1.0 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 31... | 30 | 0 | 25 | 27 | 10 | -- | 1.2 | .20 | .00 | .00 | .26 |
| NOV. | | | | | | | | | | | |
| 27... | 51 | 0 | 42 | 23 | 4.9 | -- | .9 | .37 | .00 | .01 | .22 |
| APR. | | | | | | | | | | | |
| 24... | 34 | 0 | 28 | 13 | 2.4 | .3 | -- | .30 | .04 | .10 | .21 |
| MAY | | | | | | | | | | | |
| 20... | 46 | 0 | 38 | 13 | 3.0 | .4 | -- | .13 | .02 | .09 | .30 |
| JUNE | | | | | | | | | | | |
| 19... | 58 | 0 | 48 | 16 | 4.6 | .7 | -- | .15 | .17 | .02 | .49 |
| JULY | | | | | | | | | | | |
| 16... | 64 | 0 | 53 | 18 | 9.0 | -- | -- | .11 | .01 | .34 | .26 |
| AUG. | | | | | | | | | | | |
| 12... | 42 | -- | 34 | 14 | 3.7 | -- | -- | .13 | .02 | .40 | .20 |
| SEP. | | | | | | | | | | | |
| 10... | 49 | -- | 40 | 12 | 5.0 | -- | -- | .14 | .00 | .30 | .25 |

### 04265452 GRASS RIVER BELOW MASSENA CENTER, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | .26 | .55 | .05 | -- | .03 | 105 | 132 | 93 | 8 | 2 | 78 |
| NOV.<br>27... | .23 | .60 | .02 | -- | .02 | 87 | 94 | 66 | 4 | 3 | 67 |
| APR.<br>24... | .31 | .73 | .03 | .01 | -- | -- | 73 | 43 | 5 | 2 | -- |
| MAY<br>20... | .39 | .54 | .03 | .02 | -- | -- | 105 | 71 | -- | -- | -- |
| JUNE<br>19... | .51 | .83 | .06 | .02 | -- | -- | 107 | 78 | 6 | 4 | -- |
| JULY<br>16... | .60 | .72 | .05 | .02 | -- | -- | 118 | 73 | 4 | 2 | -- |
| AUG.<br>12... | .60 | .75 | .06 | .04 | -- | -- | 104 | 70 | 2 | 1 | -- |
| SEP.<br>10... | .55 | .69 | .05 | .02 | -- | -- | 97 | 69 | 1 | 0 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>31... | 53 | 204 | 6.6 | -- | -- | 17 | .0 | -- | -- | -- | -- |
| NOV.<br>27... | 25 | 153 | 7.2 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| APR.<br>24... | -- | 100 | 7.3 | -- | -- | 14 | .0 | -- | -- | -- | -- |
| MAY<br>20... | -- | 122 | 8.1 | -- | -- | 19 | .0 | -- | -- | -- | -- |
| JUNE<br>19... | -- | 150 | 7.2 | -- | -- | 20 | .0 | 1 | 10 | 2 | <.5 |
| JULY<br>16... | -- | 170 | 7.4 | 40 | 3 | 21 | -- | -- | -- | -- | -- |
| AUG.<br>12... | -- | 101 | -- | 50 | 5 | 27 | -- | -- | -- | -- | -- |
| SEP.<br>10... | -- | 91 | -- | 30 | 3 | 16 | -- | 0 | 10 | 2 | <.5 |

## 04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.

LOCATION.--Lat 44°54'59", long 74°53'19", St. Lawrence County, at bridge on State Highway 420 (S. Main Street) in Massena Springs, 740 ft (226 m) downstream from staff gage and 0.4 mi (0.6 km) downstream from Hutchins Creek.

DRAINAGE AREA.--1,197 mi² (3,100 km²).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 1115 | 4.9 | 290 | 20 | -- | 5.7 | -- | 1.9 | -- | 2.0 | -- | .4 |
| NOV. 27... | 1130 | 4.4 | 640 | 20 | -- | 11 | -- | 4.2 | -- | 2.2 | -- | .9 |
| APR. 24... | 1220 | 4.5 | 280 | 40 | 6.7 | -- | 2.1 | -- | .8 | -- | .4 | -- |
| MAY 20... | 1245 | 4.1 | 180 | 20 | 5.0 | -- | 1.5 | -- | 1.0 | -- | .5 | -- |
| JUNE 19... | 1045 | 4.0 | 180 | 60 | 13 | -- | 2.4 | -- | 1.2 | -- | .4 | -- |
| JULY 16... | 1045 | -- | 250 | 50 | 5.7 | -- | 1.5 | -- | 1.5 | -- | .5 | -- |
| AUG. 12... | 1125 | -- | 200 | 100 | 6.4 | -- | 2.2 | -- | 1.2 | -- | .6 | -- |
| SEP. 10... | 1100 | -- | 290 | 10 | 5.8 | -- | 1.5 | -- | 1.1 | -- | .6 | -- |

| DATE | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 17 | 0 | 14 | 6.9 | 1.0 | -- | .3 | .21 | .00 | .00 | .23 |
| NOV. 27... | 30 | 0 | 25 | 14 | 9.1 | -- | .3 | .25 | .00 | .01 | .14 |
| APR. 24... | 18 | 0 | 15 | 8.7 | 1.3 | .2 | -- | .51 | .02 | .08 | .31 |
| MAY 20... | 13 | 0 | 11 | 7.4 | 1.2 | .1 | -- | .36 | .01 | .04 | .16 |
| JUNE 19... | 25 | 0 | 21 | 7.3 | 1.0 | .1 | -- | .29 | .01 | .09 | .20 |
| JULY 16... | 15 | 0 | 12 | 9.1 | 1.1 | -- | -- | .24 | .01 | .15 | .11 |
| AUG. 12... | 20 | -- | 16 | 8.4 | 1.4 | -- | -- | .18 | .01 | .20 | .07 |
| SEP. 10... | 15 | -- | 12 | 5.9 | 1.0 | -- | -- | .20 | .00 | .16 | .04 |

## 04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | .23 | .45 | .00 | -- | .00 | 31 | 41 | -- | 5 | 1 | 22 |
| NOV. 27... | .15 | .40 | .01 | -- | .01 | 61 | 60 | 43 | 2 | 1 | 45 |
| APR. 24... | .39 | .92 | .02 | .00 | -- | -- | 41 | 20 | 3 | 2 | -- |
| MAY 20... | .20 | .57 | .01 | .00 | -- | -- | 52 | 24 | 3 | 0 | -- |
| JUNE 19... | .29 | .59 | .02 | .00 | -- | -- | 51 | 29 | 2 | 0 | -- |
| JULY 16... | .26 | .51 | .02 | .01 | -- | -- | 46 | 24 | 4 | 2 | -- |
| AUG. 12... | .27 | .46 | .01 | .00 | -- | -- | 65 | 39 | 13 | 7 | -- |
| SEP. 10... | .20 | .40 | .02 | .01 | -- | -- | 35 | 20 | 1 | 1 | -- |

| DATE | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 31... | 8 | 56 | 6.7 | -- | -- | 15 | .0 | -- | -- | -- | -- |
| NOV. 27... | 20 | 98 | 7.3 | -- | -- | 16 | .0 | -- | -- | -- | -- |
| APR. 24... | -- | 57 | 7.1 | -- | -- | 12 | .0 | -- | -- | -- | -- |
| MAY 20... | -- | 47 | 7.2 | -- | -- | 15 | .0 | -- | -- | -- | -- |
| JUNE 19... | -- | 69 | 7.3 | -- | -- | 14 | .0 | 1 | 0 | 1 | <.5 |
| JULY 16... | -- | 51 | 7.1 | 20 | 2 | 13 | -- | -- | -- | -- | -- |
| AUG. 12... | -- | 58 | -- | 10 | 2 | 18 | -- | -- | -- | -- | -- |
| SEP. 10... | -- | 50 | -- | 2 | 3 | 14 | -- | <1 | 0 | 2 | <.5 |

## 04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.

LOCATION.--Lat 44°53'32", long 74°41'28", St. Lawrence County, at highway bridge, 400 ft (122 m) downstream from former gaging station at Brasher Iron Works, 3.6 mi (5.8 km) upstream from mouth, and 3.8 mi (6.1 km) downstream from Lawrence Brook.

DRAINAGE AREA.--189 $mi^2$ (490 $km^2$).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>16... | 1300 | 93 | 6.0 | 460 | 30 | -- | 17 | -- | 6.6 | -- | 2.7 |
| NOV.<br>13... | 1100 | 91 | 6.5 | 290 | 0 | -- | 17 | -- | 6.5 | -- | 4.0 |
| DEC.<br>04... | 1330 | 214 | 6.4 | 280 | 20 | -- | 16 | -- | 5.9 | -- | 2.5 |
| JAN.<br>22... | 0830 | 145 | 7.6 | 290 | 20 | -- | 16 | -- | 6.3 | -- | 2.7 |
| FEB.<br>20... | 1345 | 60 | 9.3 | 220 | 30 | -- | 16 | -- | 6.2 | -- | 2.5 |
| MAR.<br>06... | 1400 | 1700 | 2.9 | 1200 | 80 | -- | 8.0 | -- | 2.9 | -- | .7 |
| APR.<br>25... | 1145 | 607 | 4.0 | 190 | 50 | 11 | -- | 3.6 | -- | 1.1 | -- |
| MAY<br>23... | 1200 | 263 | 3.4 | 380 | 20 | 11 | -- | 5.0 | -- | 2.4 | -- |
| JUNE<br>20... | 1200 | 200 | 5.3 | 550 | 50 | 13 | -- | 5.0 | -- | -- | -- |
| JULY<br>17... | 1230 | 46 | -- | 530 | 70 | 15 | -- | 4.9 | -- | 4.4 | -- |
| AUG.<br>08... | 1030 | 112 | -- | 510 | 70 | 17 | -- | 5.5 | -- | 2.0 | -- |
| SEP.<br>18... | 0745 | 57 | -- | 390 | 20 | 17 | -- | 4.4 | -- | 2.5 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>16... | -- | 1.2 | 72 | 0 | 59 | 15 | 3.0 | -- | .4 | .15 | .00 |
| NOV.<br>13... | -- | 1.1 | 67 | 0 | 55 | 15 | 3.0 | -- | .3 | .31 | .00 |
| DEC.<br>04... | -- | .9 | 57 | 0 | 47 | 19 | 2.8 | -- | .2 | .29 | .00 |
| JAN.<br>22... | -- | .9 | 64 | 0 | 52 | 15 | 3.2 | -- | .3 | .39 | .01 |
| FEB.<br>20... | -- | 1.0 | 62 | 0 | 51 | 13 | 2.8 | -- | .2 | .51 | .01 |
| MAR.<br>06... | -- | 1.8 | 27 | 0 | 22 | 9.6 | 1.3 | -- | .2 | .37 | .04 |
| APR.<br>25... | .5 | -- | 41 | 0 | 34 | 11 | 1.7 | .2 | -- | .21 | .01 |
| MAY<br>23... | 1.1 | -- | 57 | 0 | 47 | 11 | 1.8 | .1 | -- | .11 | .01 |
| JUNE<br>20... | 1.4 | -- | 53 | 0 | 43 | 9.4 | 1.7 | .2 | -- | .18 | .01 |
| JULY<br>17... | 1.5 | -- | 66 | 0 | 54 | 12 | 2.8 | -- | -- | .03 | .01 |
| AUG.<br>08... | 1.0 | -- | 64 | 0 | 53 | 13 | 3.2 | -- | -- | .07 | .01 |
| SEP.<br>18... | .8 | -- | 52 | 0 | 43 | 9.5 | 2.7 | -- | -- | .04 | .00 |

## 04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | .12 | .22 | .34 | .49 | .10 | -- | .07 | 88 | 135 | 100 |
| NOV. | | | | | | | | | | |
| 13... | .00 | .25 | .25 | .56 | .15 | -- | .12 | 87 | 105 | 71 |
| DEC. | | | | | | | | | | |
| 04... | .05 | .15 | .20 | .50 | .06 | -- | .06 | 82 | 103 | 82 |
| JAN. | | | | | | | | | | |
| 22... | .08 | .14 | .22 | .62 | .14 | -- | .12 | 84 | 79 | 62 |
| FEB. | | | | | | | | | | |
| 20... | .14 | .18 | .32 | .84 | .17 | -- | .16 | 82 | 103 | 73 |
| MAR. | | | | | | | | | | |
| 06... | .25 | .42 | .67 | 1.1 | .07 | -- | .02 | 41 | 79 | 53 |
| APR. | | | | | | | | | | |
| 25... | .13 | .20 | .33 | .55 | .02 | .01 | -- | -- | 66 | 36 |
| MAY | | | | | | | | | | |
| 23... | .04 | .37 | .41 | .53 | .07 | .05 | -- | -- | 117 | 50 |
| JUNE | | | | | | | | | | |
| 20... | .12 | .35 | .47 | .66 | .07 | .04 | -- | -- | 93 | 55 |
| JULY | | | | | | | | | | |
| 17... | .35 | .06 | .41 | .45 | .12 | .09 | -- | -- | 95 | 62 |
| AUG. | | | | | | | | | | |
| 08... | .36 | .18 | .54 | .62 | .09 | .08 | -- | -- | 124 | 58 |
| SEP. | | | | | | | | | | |
| 16... | .28 | .02 | .30 | .34 | .13 | .13 | -- | -- | 82 | 53 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | DISSOLVED OXYGEN (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 0 | 0 | 68 | 9 | 158 | 8.3 | 10.0 | -- | -- | 8.4 |
| NOV. | | | | | | | | | | |
| 13... | 7 | 2 | 42 | 0 | 160 | 8.1 | 3.0 | -- | -- | 12.0 |
| DEC. | | | | | | | | | | |
| 04... | 5 | 4 | 60 | 13 | 142 | 7.4 | 3.0 | -- | -- | 10.2 |
| JAN. | | | | | | | | | | |
| 22... | 0 | 0 | 62 | 9 | 145 | 8.3 | .0 | -- | -- | 10.6 |
| FEB. | | | | | | | | | | |
| 20... | 4 | 2 | 65 | 14 | 147 | 7.7 | 1.0 | -- | -- | 13.0 |
| MAR. | | | | | | | | | | |
| 06... | 35 | 25 | 34 | 12 | 84 | 7.8 | 1.0 | -- | -- | 13.6 |
| APR. | | | | | | | | | | |
| 25... | 5 | 3 | -- | -- | 88 | 7.9 | 6.0 | -- | -- | -- |
| MAY | | | | | | | | | | |
| 23... | 4 | 2 | -- | -- | 120 | 7.9 | 14.0 | -- | -- | 9.2 |
| JUNE | | | | | | | | | | |
| 20... | 7 | 0 | -- | -- | 110 | 8.2 | 19.0 | -- | -- | 8.8 |
| JULY | | | | | | | | | | |
| 17... | 7 | 3 | -- | -- | 132 | 8.1 | 20.5 | 30 | 4 | 7.7 |
| AUG. | | | | | | | | | | |
| 08... | 8 | 0 | -- | -- | 130 | 7.9 | 21.0 | 40 | 3 | 7.9 |
| SEP. | | | | | | | | | | |
| 18... | 3 | 4 | -- | -- | 125 | 7.8 | 12.0 | 20 | 3 | 9.6 |

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04269500 DEER RIVER AT TRASHER IRON WORKS, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | PER-CENT SATUR-ATION | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 75 | 22 | B920 | B23 | -- | .0 | 0 | 10 | 2 | 1.0 |
| NOV. | | | | | | | | | | |
| 13... | 90 | 18 | 260 | 31 | -- | .0 | -- | -- | -- | -- |
| DEC. | | | | | | | | | | |
| 04... | 77 | 18 | 140 | 58 | -- | .0 | -- | -- | -- | -- |
| JAN. | | | | | | | | | | |
| 22... | 73 | 14 | 160 | 72 | -- | .0 | -- | -- | -- | -- |
| FEB. | | | | | | | | | | |
| 20... | 92 | 9 | B14 | 81 | -- | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | |
| 06... | 96 | 49 | 840 | 190 | -- | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | |
| 25... | -- | 21 | 240 | B260 | -- | .0 | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 23... | 90 | 24 | 6400 | B130 | -- | .0 | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 20... | 96 | 27 | 3300 | 96 | -- | .0 | -- | -- | -- | -- |
| JULY | | | | | | | | | | |
| 17... | 86 | 21 | 5200 | B40 | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 08... | 89 | 32 | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | |
| 18... | 82 | 20 | -- | -- | 6.9 | -- | 1 | 10 | 3 | <.5 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04273400 SARANAC RIVER ABOVE PLATTSBURGH, N.Y.

LOCATION.--Lat 44°40'10", long 73°30'28", Clinton County, at power plant at Old Military Turnpike, 1.4 mi (2.3 km) west of Plattsburgh and 2.7 mi (4.3 km) upstream from gaging station (04273500).

DRAINAGE AREA.--608 mi$^2$ (1,575 km$^2$) at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to June 1972, June to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, JUNE 1974 TO SEPTEMBER 1974

| DATE | TIME | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 13... | 1130 | 4.4 | 380 | 50 | 10 | 2.4 | 2.2 | .7 | 29 | 0 | 24 | 7.4 |
| AUG. 16... | 1145 | -- | 480 | 110 | 9.1 | 2.1 | 2.0 | 1.0 | 28 | -- | 23 | 8.2 |
| SEP. 06... | 1100 | -- | 460 | 40 | 9.0 | 2.6 | 1.9 | .8 | 35 | -- | 29 | 6.3 |
| 30... | 1145 | -- | 420 | 50 | 9.3 | 2.6 | 2.0 | .5 | 28 | -- | 23 | 6.4 |

| DATE | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 13... | 2.6 | .2 | .16 | .01 | .10 | .32 | .42 | .59 | .02 | .01 | -- | -- |
| AUG. 16... | 2.2 | -- | .05 | .00 | .34 | .13 | .47 | .52 | .03 | .01 | 79 | 54 |
| SEP. 06... | 2.3 | -- | .12 | .00 | .28 | .04 | .32 | .44 | .02 | .01 | 60 | 39 |
| 30... | 2.0 | -- | .09 | .00 | .24 | .14 | .38 | .47 | .02 | .00 | 60 | 31 |

| DATE | TOTAL NONFILTRABLE RESIDUE (MG/L) | FIXED NONFILTRABLE RESIDUE (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (JTU) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE 13... | -- | -- | 73 | 7.1 | -- | -- | -- | 1 | 10 | 4 | <.5 |
| AUG. 16... | 6 | 0 | 74 | -- | 30 | 3 | 21 | -- | -- | -- | -- |
| SEP. 06... | 0 | 0 | 80 | -- | 20 | 3 | 17 | -- | -- | -- | -- |
| 30... | 8 | 4 | 77 | -- | 30 | 2 | 16 | <1 | 0 | 5 | <.5 |

## 0427[illegible]15 LA CHUTE AT STATE HIGHWAY 22 AT TICONDEROGA, N.Y.

LOCATION.--Lat 43°51'00", long 73°25'20", Essex County, at bridge on State Highway 22 in Ticonderoga, and 0.8 mi (1.3 km) downstream from gaging station (04279000 La Chute at Ticonderoga) which is 250 ft (76 m) upstream from Trout Brook.

DRAINAGE AREA.--234 mi$^2$ (606 km$^2$) at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974. Prior to October 1972, published as Ticonderoga Creek at Ticonderoga.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS- SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN- GANESE (MN) (UG/L) | TOTAL CAL- CIUM (CA) (MG/L) | DIS- SOLVED CAL- CIUM (CA) (MG/L) | TOTAL MAG- NE- SIUM (MG) (MG/L) | DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS- SOLVED SODIUM (NA) (MG/L) | TOTAL PO- TAS- SIUM (K) (MG/L) | DIS- SOLVED PO- TAS- SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | -- | 2.0 | 190 | 10 | -- | 14 | -- | 3.6 | -- | 5.2 | -- | .9 |
| NOV.<br>14... | 1450 | 2.1 | 150 | 0 | -- | 14 | -- | 3.5 | -- | 6.2 | -- | 1.2 |
| JAN.<br>24... | 1150 | 2.0 | 370 | 50 | -- | 12 | -- | 2.8 | -- | 3.8 | -- | .6 |
| FEB.<br>21... | 1230 | 2.2 | 170 | 10 | -- | 15 | -- | 3.2 | -- | 4.6 | -- | .8 |
| MAR.<br>21... | 1100 | 1.3 | 640 | 10 | -- | 12 | -- | 2.7 | -- | 2.9 | -- | .7 |
| APR.<br>25... | 1115 | 1.5 | 300 | 40 | 12 | -- | 2.5 | -- | 3.0 | -- | .5 | -- |
| JUNE<br>13... | 1515 | 1.1 | 240 | 20 | 12 | -- | 2.6 | -- | 3.1 | -- | .6 | -- |
| AUG.<br>16... | 1500 | -- | 220 | 60 | 15 | -- | 3.7 | -- | 9.4 | -- | 1.1 | -- |
| SEP.<br>06... | 1415 | -- | 330 | 20 | 16 | -- | 3.9 | -- | 7.0 | -- | 1.1 | -- |
| 30... | 1500 | -- | 820 | 50 | 15 | -- | 3.7 | -- | 3.8 | -- | .8 | -- |

| DATE | BICAR- BONATE (HCO3) (MG/L) | CAR- BONATE (CO3) (MG/L) | ALKA- LINITY AS CACO3 (MG/L) | DIS- SOLVED SULFATE (SO4) (MG/L) | DIS- SOLVED CHLO- RIDE (CL) (MG/L) | TOTAL FLUO- RIDE (F) (MG/L) | DIS- SOLVED FLUO- RIDE (F) (MG/L) | TOTAL NITRATE (N) MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO- GEN (N) (MG/L) | TOTAL ORGANIC NITRO- GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT.<br>18... | 52 | 0 | 43 | 11 | 5.5 | -- | .3 | .20 | .00 | .04 | .06 |
| NOV.<br>14... | 53 | 0 | 43 | 13 | 6.0 | -- | .3 | .38 | .00 | .10 | .06 |
| JAN.<br>24... | 35 | 0 | 29 | 13 | 5.5 | -- | .1 | .06 | .00 | .04 | .13 |
| FEB.<br>21... | 48 | 0 | 39 | 14 | 6.4 | -- | .2 | .07 | .00 | .09 | .29 |
| MAR.<br>21... | 35 | 0 | 29 | 13 | 4.7 | -- | .2 | .03 | .00 | .11 | .17 |
| APR.<br>25... | 34 | 0 | 28 | 12 | 9.0 | .1 | -- | .07 | .01 | .05 | .18 |
| JUNE<br>13... | 34 | 0 | 28 | 11 | 4.6 | .1 | -- | .00 | .01 | .07 | .22 |
| AUG.<br>16... | 62 | -- | 51 | 17 | 7.4 | -- | -- | .05 | .01 | .41 | .17 |
| SEP.<br>06... | 69 | -- | 57 | 10 | 7.6 | -- | -- | .06 | .01 | .36 | .33 |
| 30... | 49 | -- | 40 | 13 | 4.7 | -- | -- | .03 | .00 | .12 | .24 |

## 04279015 LA CHUTE AT STATE HIGHWAY 22 AT TICONDEROGA, N.Y.--Continued

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA.MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | .10 | .31 | .07 | -- | .02 | 68 | 83 | 78 | 3 | 0 | 50 |
| NOV. 14... | .16 | .55 | .05 | -- | .04 | 73 | 89 | 60 | 4 | 0 | 49 |
| JAN. 24... | .17 | .23 | .02 | -- | .00 | 57 | 56 | 58 | 3 | 1 | 41 |
| FEB. 21... | .38 | .45 | .02 | -- | .02 | 70 | 89 | 63 | 4 | 3 | 51 |
| MAR. 21... | .28 | .31 | .01 | -- | .00 | 55 | 74 | 71 | 4 | 2 | 41 |
| APR. 25... | .23 | .31 | .02 | .00 | -- | -- | 55 | 38 | 5 | 3 | -- |
| JUNE 13... | .29 | .30 | .01 | .01 | -- | -- | -- | -- | -- | -- | -- |
| AUG. 16... | .58 | .64 | .06 | .04 | -- | -- | 113 | 76 | 4 | 0 | -- |
| SEP. 06... | .69 | .76 | .06 | .05 | -- | -- | 100 | 85 | 7 | 4 | -- |
| 30... | .36 | .39 | .03 | .01 | -- | -- | 102 | 81 | 30 | 24 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. 18... | 7 | 133 | 7.2 | -- | -- | 7 | .0 | -- | -- | -- | -- |
| NOV. 14... | 6 | 140 | 7.1 | -- | -- | 9 | .0 | -- | -- | -- | -- |
| JAN. 24... | 13 | 109 | 7.3 | -- | -- | 8 | .0 | -- | -- | -- | -- |
| FEB. 21... | 11 | 120 | 7.5 | -- | -- | 8 | .0 | -- | -- | -- | -- |
| MAR. 21... | 12 | 96 | 7.2 | -- | -- | 8 | .0 | -- | -- | -- | -- |
| APR. 25... | -- | 100 | 7.3 | -- | -- | 6 | .0 | -- | -- | -- | -- |
| JUNE 13... | -- | 102 | 7.3 | -- | -- | -- | -- | 1 | 10 | 11 | 6.6 |
| AUG. 16... | -- | 154 | -- | 50 | 3 | 19 | -- | -- | -- | -- | -- |
| SEP. 06... | -- | 164 | -- | 8 | 5 | 12 | -- | -- | -- | -- | -- |
| 30... | -- | 136 | -- | 2 | 20 | 11 | -- | 1 | 0 | 7 | <.5 |

## 04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.

LOCATION.--Lat 43°34'55", long 73°25'19", Washington County, N.Y.-Rutland County, Vt., at midchannel directly south of navigation light, 0.2 mi (0.4 km) upstream from South Bay and 2.0 mi (3.2 km) northwest of Whitehall.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 1500 | -- | -- | -- | -- | -- | -- | -- | .24 | .01 |
| MAY | | | | | | | | | | |
| 29... | 1830 | -- | -- | -- | -- | -- | -- | -- | .31 | .01 |
| JUNE | | | | | | | | | | |
| 12... | 0945 | -- | -- | -- | -- | -- | -- | -- | .00 | .02 |
| JULY | | | | | | | | | | |
| 11... | 1510 | -- | -- | -- | -- | -- | -- | -- | .54 | .03 |
| AUG. | | | | | | | | | | |
| 06... | 1600 | 4.2 | 1200 | 80 | 85 | 0 | 70 | .2 | .36 | .03 |
| SEP. | | | | | | | | | | |
| 05... | 0940 | -- | -- | -- | -- | -- | -- | -- | .25 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | .36 | .61 | .08 | 240 | 7.6 | 11.5 | 15 | 10.0 | 92 |
| MAY | | | | | | | | | |
| 29... | .32 | .64 | .04 | 225 | 7.7 | 13.0 | 10 | 9.2 | 87 |
| JUNE | | | | | | | | | |
| 12... | .33 | .33 | .03 | 250 | 7.6 | 22.0 | 10 | 7.6 | 86 |
| JULY | | | | | | | | | |
| 11... | .62 | 1.2 | .11 | 215 | 7.6 | 25.0 | 40 | 5.8 | 69 |
| AUG. | | | | | | | | | |
| 06... | .49 | .88 | .09 | 189 | 7.5 | 24.0 | 30 | 7.2 | 85 |
| SEP. | | | | | | | | | |
| 05... | .55 | .80 | .08 | 196 | 7.7 | 15.0 | 30 | 8.4 | 82 |

| DATE | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | 8.6 | -- | B270 | 120 | -- | 4.1 | -- | -- | -- |
| MAY | | | | | | | | | |
| 29... | .0 | .0 | 1500 | 530 | 74 | -- | -- | -- | -- |
| JUNE | | | | | | | | | |
| 12... | .4 | .5 | B190 | 880 | 85 | 3.1 | -- | -- | -- |
| JULY | | | | | | | | | |
| 11... | .5 | 2.5 | -- | 330 | -- | 5.0 | -- | -- | -- |
| AUG. | | | | | | | | | |
| 06... | 4.0 | 4.5 | -- | B1300 | -- | 5.9 | .00 | .0 | 0 |
| SEP. | | | | | | | | | |
| 05... | 14 | 9.7 | -- | B1100 | -- | 6.1 | -- | -- | -- |

| DATE | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | 0 | -- | -- | -- | 3 | <.5 | -- | -- | -- |
| MAY | | | | | | | | | |
| 29... | <1 | 0 | 0 | 20 | 5 | <.5 | -- | -- | -- |
| JUNE | | | | | | | | | |
| 12... | 0 | 0 | 10 | 10 | 8 | <.5 | -- | -- | -- |
| JULY | | | | | | | | | |
| 11... | 4 | 0 | <10 | 20 | 12 | <.5 | -- | -- | -- |
| AUG. | | | | | | | | | |
| 06... | 1 | 0 | 0 | 20 | 11 | <.5 | 1 | 0 | 4.2 |
| SEP. | | | | | | | | | |
| 05... | 2 | 0 | <10 | 10 | 7 | .6 | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | | |
| 29... | 1830 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | | |
| 29... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .07 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 29... | 1830 | .0 | 0 | .0 | .2 | .0 | .0 | .0 | .0 | .0 |
| AUG. | | | | | | | | | | |
| 06... | 1600 | .0 | 0 | 1.8 | .9 | .0 | .0 | .2 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY | | | | | | | | | | |
| 29... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 0 | 0 | .0 |
| AUG. | | | | | | | | | | |
| 06... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 37 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. | | | | | | | | | |
| 06... | 1600 | <1.0 | 3.2 | 2.6 | 120 | 2.0 | 2.8 | 2.4 | 40 |

## 04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.

LOCATION (Revised).--Lat 43°50'60", long 73°23'16", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line opposite mouth of La Chute, 0.5 mi (0.8 km) south of Fort Ticonderoga and 2.0 mi (3.2 km) southeast of Ticonderoga.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 1130 | -- | -- | -- | -- | -- | -- | -- | .00 | .00 |
| MAY | | | | | | | | | | |
| 29... | 1550 | -- | -- | -- | -- | -- | -- | -- | .11 | .01 |
| JUNE | | | | | | | | | | |
| 12... | 1100 | -- | -- | -- | -- | -- | -- | -- | .15 | .01 |
| JULY | | | | | | | | | | |
| 11... | 1210 | -- | -- | -- | -- | -- | -- | -- | .00 | .01 |
| AUG. | | | | | | | | | | |
| 06... | 1215 | .5 | 420 | 10 | 69 | 0 | 57 | .2 | .03 | .01 |
| SEP. | | | | | | | | | | |
| 05... | 1055 | -- | -- | -- | -- | -- | -- | -- | .07 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | .25 | .26 | .03 | 220 | 7.9 | 11.5 | 10 | 9.6 | 90 |
| MAY | | | | | | | | | |
| 29... | .32 | .44 | .02 | 177 | 7.6 | 14.0 | 8 | 10.0 | 96 |
| JUNE | | | | | | | | | |
| 12... | .41 | .57 | .04 | 205 | 8.1 | 20.0 | 6 | 9.5 | 103 |
| JULY | | | | | | | | | |
| 11... | .41 | .42 | .04 | 176 | 7.8 | 23.0 | 20 | 6.9 | 79 |
| AUG. | | | | | | | | | |
| 06... | .34 | .38 | .04 | 171 | 8.0 | 23.5 | 10 | 7.7 | 91 |
| SEP. | | | | | | | | | |
| 05... | .45 | .52 | .05 | 190 | 8.1 | 19.5 | 20 | 7.2 | 78 |

| DATE | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | 5.6 | -- | 1400 | B80 | -- | 5.0 | -- | -- | -- |
| MAY | | | | | | | | | |
| 29... | 1.2 | 1.6 | 310 | B28 | B9 | 4.0 | -- | -- | -- |
| JUNE | | | | | | | | | |
| 12... | 3.0 | 6.0 | 840 | B11 | B2 | 2.9 | -- | -- | -- |
| JULY | | | | | | | | | |
| 11... | 1.5 | 7.5 | -- | B180 | -- | 2.0 | -- | -- | -- |
| AUG. | | | | | | | | | |
| 06... | 5.7 | 6.3 | -- | 250 | -- | 3.2 | .00 | .0 | 0 |
| SEP. | | | | | | | | | |
| 05... | 16 | 10 | -- | B96 | -- | 4.0 | -- | -- | -- |

| DATE | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | 1 | -- | -- | -- | 3 | <.5 | -- | -- | -- |
| MAY | | | | | | | | | |
| 29... | 2 | 0 | 0 | 30 | 3 | <.5 | -- | -- | -- |
| JUNE | | | | | | | | | |
| 12... | 0 | 0 | 0 | 130 | 44 | <.5 | -- | -- | -- |
| JULY | | | | | | | | | |
| 11... | 0 | 0 | <10 | 20 | 22 | <.5 | -- | -- | -- |
| AUG. | | | | | | | | | |
| 06... | 1 | 0 | 0 | 10 | 72 | <.5 | 0 | 0 | 2.2 |
| SEP. | | | | | | | | | |
| 05... | 1 | 0 | <10 | 10 | 0 | .6 | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04294400 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) | HEPTA-CHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY<br>29... | 1550 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY<br>29... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DE-POSITS (UG/KG) | CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG) | DDD IN BOTTOM DE-POSITS (UG/KG) | DDE IN BOTTOM DE-POSITS (UG/KG) | DDT IN BOTTOM DE-POSITS (UG/KG) | DI-AZINON IN BOTTOM DE-POSITS (UG/KG) | DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG) | ENDRIN IN BOTTOM DE-POSITS (UG/KG) | ETHION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY<br>29... | 1550 | .0 | 0 | 5.1 | .0 | .0 | .0 | .7 | .0 | .0 |
| AUG.<br>06... | 1215 | .0 | 0 | 8.3 | 2.6 | .0 | .0 | .4 | .0 | .0 |

| DATE | HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG) | HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG) | LINDANE IN BOTTOM DE-POSITS (UG/KG) | MALA-THION IN BOTTOM DE-POSITS (UG/KG) | METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG) | METHYL TRI-THION IN BOT-TOM DE-POSITS (UG/KG) | PARA-THION IN BOTTOM DE-POSITS (UG/KG) | PCB IN BOTTOM DE-POSITS (UG/KG) | TOX-APHENE IN BOTTOM DE-POSITS (UG/KG) | TRI-THION IN BOTTOM DE-POSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY<br>29... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 40 | 0 | .0 |
| AUG.<br>06... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 200 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) | SUS-PENDED GROSS BETA AS CS-137 (PC/L) | SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG.<br>06... | 1215 | 1.1 | 3.5 | 2.7 | 110 | .6 | .8 | .7 | 13 |

## 04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.

**LOCATION.**--Lat 43°55'25", long 73°24'20", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line, approximately 1.5 mi (2.4 km) north of Fivemile Point and 2.3 mi (3.7 km) southeast of Crown Point.

**PERIOD OF RECORD.**--Chemical analyses: August 1969 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 16... | 1030 | -- | -- | -- | -- | -- | -- | -- | .07 | .02 |
| MAY | | | | | | | | | | |
| 29... | 1430 | -- | -- | -- | -- | -- | -- | -- | .05 | .01 |
| JUNE | | | | | | | | | | |
| 12... | 1130 | -- | -- | -- | -- | -- | -- | -- | .01 | .02 |
| JULY | | | | | | | | | | |
| 11... | 1105 | -- | -- | -- | -- | -- | -- | -- | .03 | .01 |
| AUG. | | | | | | | | | | |
| 06... | 1130 | .4 | 420 | 10 | 77 | 0 | 63 | .2 | .03 | .01 |
| SEP. | | | | | | | | | | |
| 05... | 1130 | -- | -- | -- | -- | -- | -- | -- | .03 | .00 |

| DATE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | PER-CENT SATUR-ATION |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | .26 | .35 | .06 | 250 | 7.5 | 12.0 | 15 | 9.5 | 88 |
| MAY | | | | | | | | | |
| 29... | .45 | .51 | .04 | 195 | 7.2 | 15.0 | 8 | 9.2 | 90 |
| JUNE | | | | | | | | | |
| 12... | .30 | .33 | .03 | 170 | 8.2 | 20.0 | 10 | 9.7 | 104 |
| JULY | | | | | | | | | |
| 11... | .44 | .48 | .05 | 193 | 7.7 | 22.0 | 10 | 7.4 | 84 |
| AUG. | | | | | | | | | |
| 06... | .37 | .41 | .04 | 192 | 8.0 | 22.5 | 20 | 7.6 | 87 |
| SEP. | | | | | | | | | |
| 05... | .40 | .43 | .05 | 196 | 8.1 | 19.0 | 30 | 7.4 | 85 |

| DATE | CHLORO-PHYLL A (UG/L) | CHLORO-PHYLL B (UG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | CYANIDE (CN) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | OIL AND GREASE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | 1.0 | -- | B60 | B2 | -- | 26 | -- | -- | -- |
| MAY | | | | | | | | | |
| 29... | 57 | 9.5 | B10 | <1 | <1 | 3.6 | -- | -- | -- |
| JUNE | | | | | | | | | |
| 12... | .5 | .0 | B11 | B2 | <1 | 3.5 | -- | -- | -- |
| JULY | | | | | | | | | |
| 11... | 2.0 | 4.0 | -- | B4 | -- | 3.1 | -- | -- | -- |
| AUG. | | | | | | | | | |
| 06... | 5.5 | 8.0 | -- | B6 | -- | 3.6 | .01 | .0 | 0 |
| SEP. | | | | | | | | | |
| 05... | 26 | 12 | -- | B7 | -- | 7.4 | -- | -- | -- |

| DATE | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL NICKEL (NI) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL VANA-DIUM (V) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | |
| 16... | <1 | -- | -- | -- | 5 | <.5 | -- | -- | -- |
| MAY | | | | | | | | | |
| 29... | 1 | 0 | <10 | 10 | 4 | <.5 | -- | -- | -- |
| JUNE | | | | | | | | | |
| 12... | 0 | 0 | 10 | 30 | 8 | <.5 | -- | -- | -- |
| JULY | | | | | | | | | |
| 11... | 4 | 0 | <10 | 20 | 20 | <.5 | -- | -- | -- |
| AUG. | | | | | | | | | |
| 06... | 1 | 0 | 0 | 10 | 9 | <.5 | 0 | 2 | 1.9 |
| SEP. | | | | | | | | | |
| 05... | 1 | 0 | <10 | 10 | 7 | <.5 | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

## 04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### PESTICIDE ANALYSES

| DATE | TIME | ALDRIN (UG/L) | CHLORDANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DIAZINON (UG/L) | DIELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTACHLOR (UG/L) | HEPTACHLOR EPOXIDE (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1430 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE | LINDANE (UG/L) | MALATHION (UG/L) | METHYL PARATHION (UG/L) | METHYL TRITHION (UG/L) | PARATHION (UG/L) | PCB (UG/L) | TOXAPHENE (UG/L) | TRITHION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

| DATE | TIME | ALDRIN IN BOTTOM DEPOSITS (UG/KG) | CHLORDANE IN BOTTOM DEPOSITS (UG/KG) | DDD IN BOTTOM DEPOSITS (UG/KG) | DDE IN BOTTOM DEPOSITS (UG/KG) | DDT IN BOTTOM DEPOSITS (UG/KG) | DIAZINON IN BOTTOM DEPOSITS (UG/KG) | DIELDRIN IN BOTTOM DEPOSITS (UG/KG) | ENDRIN IN BOTTOM DEPOSITS (UG/KG) | ETHION IN BOTTOM DEPOSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | 1430 | .0 | 0 | 2.5 | -- | .0 | .0 | .2 | .0 | .0 |
| AUG. 06... | 1130 | .0 | 0 | 7.6 | 1.6 | 1.1 | .0 | .3 | .0 | .0 |

| DATE | HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG) | HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG) | LINDANE IN BOTTOM DEPOSITS (UG/KG) | MALATHION IN BOTTOM DEPOSITS (UG/KG) | METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG) | METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG) | PARATHION IN BOTTOM DEPOSITS (UG/KG) | PCB IN BOTTOM DEPOSITS (UG/KG) | TOXAPHENE IN BOTTOM DEPOSITS (UG/KG) | TRITHION IN BOTTOM DEPOSITS (UG/KG) |
|---|---|---|---|---|---|---|---|---|---|---|
| MAY 29... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 7 | 0 | .0 |
| AUG. 06... | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 70 | 0 | .0 |

### RADIOCHEMICAL ANALYSIS

| DATE | TIME | DISSOLVED GROSS ALPHA AS U-NAT. (UG/L) | DISSOLVED GROSS BETA AS CS-137 (PC/L) | DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILTRABLE RESIDUE (MG/L) | SUSPENDED GROSS ALPHA AS U-NAT. (UG/L) | SUSPENDED GROSS BETA AS CS-137 (PC/L) | SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL NONFILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| AUG. 06... | 1130 | 1.8 | 3.5 | 2.8 | 110 | <.4 | .9 | .8 | 14 |

## 04294412 LAKE CHAMPLAIN NEAR PORT HENRY, N.Y.

LOCATION.--Lat 44°01'48", long 73°25'20", Essex County, at boat dock approximately 300 ft (91 m) south of Lake Champlain Toll Bridge on Crown Point and 2.0 mi (3.2 km) southeast of Port Henry.

PERIOD OF RECORD.--Chemical analyses: October 1973 to October 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

### CHEMICAL ANALYSES, OCTOBER 1973 TO OCTOBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT., 1973 | | | | | | | | | | | | |
| 18... | 1145 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUNE, 1974 | | | | | | | | | | | | |
| 13... | 1420 | .4 | 1000 | 80 | 22 | 5.4 | 5.5 | 1.3 | 72 | 0 | 59 | 17 |
| AUG. | | | | | | | | | | | | |
| 16... | 1430 | -- | 260 | 40 | 18 | 4.6 | 6.0 | 1.3 | 62 | -- | 51 | 17 |
| SEP. | | | | | | | | | | | | |
| 06... | 1330 | -- | 330 | 20 | 17 | 4.6 | 7.0 | 1.4 | 67 | -- | 55 | 18 |
| 30... | 1400 | -- | 650 | 40 | 24 | 6.2 | 10 | 1.4 | 81 | -- | 66 | 21 |
| OCT. | | | | | | | | | | | | |
| 28... | 1400 | -- | 430 | 20 | 22 | 6.5 | 8.0 | 1.0 | 80 | -- | 66 | 18 |

| DATE | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT., 1973 | | | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUNE, 1974 | | | | | | | | | | | | |
| 13... | 7.2 | .2 | .10 | .01 | .11 | .36 | .47 | .58 | .04 | .02 | -- | -- |
| AUG. | | | | | | | | | | | | |
| 16... | 8.5 | -- | .04 | .00 | .14 | .21 | .35 | .39 | .01 | .01 | 124 | 77 |
| SEP. | | | | | | | | | | | | |
| 06... | 10 | -- | .09 | .00 | .16 | .26 | .42 | .51 | .02 | .01 | 107 | 93 |
| 30... | 12 | -- | .11 | .00 | .18 | .27 | .45 | .56 | .04 | .02 | 154 | 124 |
| OCT. | | | | | | | | | | | | |
| 28... | 9.1 | -- | .15 | .00 | .19 | .20 | .39 | .54 | .04 | .02 | 138 | 112 |

| DATE | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT., 1973 | | | | | | | | | | | |
| 18... | -- | -- | -- | -- | -- | -- | -- | 4 | 10 | 0 | <.5 |
| JUNE, 1974 | | | | | | | | | | | |
| 13... | -- | -- | 178 | 7.6 | -- | -- | -- | 1 | 10 | 6 | <.5 |
| AUG. | | | | | | | | | | | |
| 16... | 2 | 0 | 171 | -- | 2 | 5 | 11 | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 06... | 0 | 0 | 184 | -- | 4 | 9 | 11 | -- | -- | -- | -- |
| 30... | 11 | 8 | 217 | -- | 4 | 20 | 14 | <1 | 0 | 6 | <.5 |
| OCT. | | | | | | | | | | | |
| 28... | 9 | 7 | 216 | -- | 20 | 10 | 12 | -- | -- | -- | -- |

## 04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.
(National Stream-Quality Accounting Network Station)

**LOCATION.**--Lat 44°59'46", long 73°21'37", Clinton County, at gaging station at outlet of Lake Champlain at old railroad bridge in Rouses Point and 1.0 mi (1.6 km) south of Fort Montgomery ruins.

**DRAINAGE AREA.**--8,277 mi² (21,437 km²).

**PERIOD OF RECORD.**--Chemical analyses: April 1969 to June 1972, October 1973 to September 1974.

### CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE | | | | | | | | | | | |
| 13... | 1015 | .5 | 16 | -- | 3.7 | -- | 4.4 | -- | 1.0 | -- | 49 |
| AUG. | | | | | | | | | | | |
| 16... | 1045 | -- | 14 | -- | 3.8 | -- | 4.3 | -- | 1.4 | -- | 50 |
| SEP. | | | | | | | | | | | |
| 06... | 1000 | -- | 15 | -- | 3.7 | -- | 4.0 | -- | 1.0 | -- | 54 |
| 26... | 1000 | .9 | -- | 16 | -- | 4.6 | -- | 5.0 | -- | 1.3 | 51 |
| 30... | 1030 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 54 |

| DATE | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JUNE | | | | | | | | | | | |
| 13... | 0 | 40 | 12 | 6.7 | .2 | -- | .11 | .01 | .23 | .39 | .62 |
| AUG. | | | | | | | | | | | |
| 16... | -- | 41 | 14 | 6.6 | -- | -- | .04 | .00 | .34 | .37 | .71 |
| SEP. | | | | | | | | | | | |
| 06... | -- | 44 | 13 | 6.1 | -- | -- | .06 | .00 | .12 | .12 | .24 |
| 26... | 0 | 42 | 11 | 7.7 | -- | .2 | -- | -- | -- | -- | .16 |
| 30... | -- | 44 | 12 | 6.5 | -- | -- | .05 | .00 | .07 | .19 | .26 |

| DATE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | TOTAL RESI-DUE (MG/L) | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | HARD-NESS (CA,MG) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE | | | | | | | | | | |
| 13... | .74 | .02 | .01 | -- | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 16... | .75 | .02 | .01 | -- | -- | 101 | 57 | 1 | 0 | -- |
| SEP. | | | | | | | | | | |
| 06... | .30 | .01 | .01 | -- | -- | 107 | 66 | 1 | 0 | -- |
| 26... | .24 | .02 | -- | 81 | 72 | 107 | 66 | -- | <0 | 59 |
| 30... | .31 | .01 | .00 | -- | -- | 91 | 60 | 4 | 1 | -- |

| DATE | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM-COBALT UNITS) | TUR-BID-ITY (JTU) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| JUNE | | | | | | | | | | |
| 13... | -- | 134 | 7.5 | -- | -- | -- | -- | -- | -- | -- |
| AUG. | | | | | | | | | | |
| 16... | -- | 142 | -- | -- | 3 | 2 | 14 | -- | -- | -- |
| SEP. | | | | | | | | | | |
| 06... | -- | 141 | -- | -- | 1 | 2 | 12 | -- | -- | -- |
| 26... | 17 | 134 | 7.7 | 13.5 | -- | 2 | -- | B1 | B3 | 3.8 |
| 30... | -- | 144 | -- | -- | 2 | 1 | 11 | -- | -- | -- |

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

## 04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.--Continued
(National Stream Quality Accounting Network Station)

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | SUS-PENDED ARSENIC (AS) (UG/L) | DIS-SOLVED ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | SUS-PENDED CAD-MIUM (CD) (UG/L) | DIS-SOLVED CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | DIS-SOLVED CHRO-MIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) | SUS-PENDED COBALT (CO) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | | |
| 18... | 0815 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | | |
| 13... | 1015 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 26... | 1000 | 3 | 2 | 1 | 2 | 1 | 1 | <10 | 0 | 12 | 11 |
| 30... | 1030 | 0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| DATE | DIS-SOLVED COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) | SUS-PENDED COPPER (CU) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | TOTAL IRON (FE) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | TOTAL LEAD (PB) (UG/L) | SUS-PENDED LEAD (PB) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 18... | -- | 0 | -- | -- | -- | -- | 5 | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 13... | -- | 10 | -- | -- | 110 | -- | 5 | -- | -- | 20 |
| SEP. | | | | | | | | | | |
| 26... | 1 | 10 | 10 | 0 | 350 | 30 | 16 | 15 | 1 | 40 |
| 30... | -- | 0 | -- | -- | 50 | -- | 4 | -- | -- | 10 |

| DATE | SUS-PENDED MAN-GANESE (MN) (UG/L) | DIS-SOLVED MAN-GANESE (MN) (UG/L) | TOTAL MERCURY (HG) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | SUS-PENDED SELE-NIUM (SE) (UG/L) | DIS-SOLVED SELE-NIUM (SE) (UG/L) | TOTAL ZINC (ZN) (UG/L) | SUS-PENDED ZINC (ZN) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| OCT. | | | | | | | | | | |
| 18... | -- | -- | <.5 | -- | -- | -- | -- | -- | -- | -- |
| JUNE | | | | | | | | | | |
| 13... | -- | -- | 9.4 | -- | -- | -- | -- | -- | -- | -- |
| SEP. | | | | | | | | | | |
| 26... | 40 | 0 | <.5 | <.5 | 2 | 0 | 3 | 0 | 0 | 20 |
| 30... | -- | -- | <.5 | -- | -- | -- | -- | -- | -- | -- |

### CROSS-SECTION MEASUREMENT

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C).

September 26, 1974 1001 to 1009 Hours

| Distance from left bank | | 320 ft (98 m) | | 950 ft (290 m) | | 1600 ft (488 m) | |
|---|---|---|---|---|---|---|---|
| depth ft | m | Cond. | Temp. | Cond. | Temp. | Cond. | Temp. |
| 2 | 0.6 | 135 | - - | 132 | - - | 130 | - - |
| 7 | 2 | 133 | - - | 131 | - - | 130 | - - |
| 13 | 4 | 134 | - - | 132 | - - | 131 | - - |

### PHYTOPLANKTON ANALYSES

| DATE | TOTAL COUNT Cells/ml | ORGANISMS IDENTIFIED | PERCENT COMPO-SITION |
|---|---|---|---|
| Sept. 26 1974 | 730 | Eudorina | 31 |
| | | Navicula | 23 |
| | | Cyclotella | 15 |
| | | Cocconeis | 10 |
| | | Pediastrum | 8 |
| | | Achnanthes | 6 |
| | | Gomphonema | 4 |
| | | Synedra | 4 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND | | | | | | | | | | | | |
| 01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05) | | | | | | | | | | | | |
| JAN., 1974<br>02... | 1130 | 5.3 | 11 | 3400 | 210 | -- | 18 | -- | 6.1 | -- | 12 | -- |
| MAR.<br>26... | 1400 | 5.3 | 11 | 1100 | 150 | -- | 19 | -- | 5.8 | -- | 16 | -- |
| JUNE<br>28... | 0915 | 5.3 | 14 | 730 | 150 | -- | 38 | -- | 6.3 | -- | 16 | -- |
| 01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50) | | | | | | | | | | | | |
| JAN., 1974<br>02... | 1245 | 4.1 | 5.6 | 730 | 40 | -- | 3.7 | -- | 1.7 | -- | 5.7 | -- |
| MAR.<br>27... | 1430 | 3.4 | 5.1 | 740 | 40 | -- | 3.8 | -- | 1.6 | -- | 5.7 | -- |
| JUNE<br>27... | 1300 | 3.7 | 4.4 | 490 | 30 | -- | 4.5 | -- | 1.7 | -- | 6.3 | -- |
| 01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29) | | | | | | | | | | | | |
| JAN., 1974<br>03... | 1100 | 49 | 6.6 | 190 | 60 | -- | 5.3 | -- | 2.2 | -- | 9.2 | -- |
| APR.<br>03... | 0830 | 54 | 6.3 | 130 | 60 | -- | 6.0 | -- | 2.2 | -- | 12 | -- |
| JUNE<br>18... | 1300 | 41 | 6.5 | 270 | 50 | -- | 5.5 | -- | 2.2 | -- | 9.2 | -- |
| 01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14) | | | | | | | | | | | | |
| DEC., 1973<br>28... | 1130 | 70 | 4.9 | 470 | 70 | -- | 5.0 | -- | 1.9 | -- | 5.1 | -- |
| MAR., 1974<br>28... | 1030 | 67 | 3.4 | 420 | 60 | -- | 4.6 | -- | 1.8 | -- | 5.4 | -- |
| JUNE<br>25... | 1000 | 43 | 5.8 | 1700 | 110 | -- | 7.0 | -- | 2.4 | -- | 6.7 | -- |
| SEP.<br>27... | 1030 | 23 | 5.0 | 530 | 70 | -- | 7.0 | -- | 2.2 | -- | 6.5 | -- |
| 01304580 - COLD SPRING POND TRIBUTARY AT SHINECOCK HILL NY (LAT 40 54 05 LONG 072 27 08) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1410 | .12 | 6.0 | 1900 | 100 | 12 | -- | 30 | -- | 290 | -- | 12 |
| 01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1345 | .35 | 6.9 | 420 | 80 | 6.2 | -- | 1.9 | -- | 8.4 | -- | 1.0 |
| 01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1315 | 2.1 | 2.3 | 250 | 210 | 6.5 | -- | 1.8 | -- | 11 | -- | 1.3 |
| 01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1245 | 1.8 | 2.9 | 500 | 410 | 5.5 | -- | 2.0 | -- | 12 | -- | 1.3 |
| 01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1215 | 1.2 | 7.9 | 70 | 10 | 3.0 | -- | 1.5 | -- | 6.5 | -- | .6 |
| 01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1145 | .61 | 1.8 | 500 | 50 | 4.3 | -- | 1.6 | -- | 8.0 | -- | 1.0 |

CONTINUED NEXT PAGE

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **STREAMS ON LONG ISLAND** | | | | | | | | | | | | |
| 01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05) | | | | | | | | | | | | |
| JAN., 1974<br>02... | 2.7 | 43 | 29 | 19 | -- | .2 | 3.3 | .02 | .31 | .05 | .36 | 3.7 |
| MAR.<br>26... | 3.4 | 46 | 24 | 26 | -- | .1 | 3.4 | .01 | .33 | .16 | .49 | 3.9 |
| JUNE<br>28... | 2.7 | 30 | 26 | 59 | -- | .2 | -- | -- | -- | -- | -- | -- |
| 01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50) | | | | | | | | | | | | |
| JAN., 1974<br>02... | 1.0 | 12 | 4.8 | 9.6 | -- | .1 | .71 | .00 | .08 | .21 | .29 | 1.0 |
| MAR.<br>27... | 1.2 | 13 | 5.1 | 9.2 | -- | .1 | .71 | .01 | .18 | .11 | .29 | 1.0 |
| JUNE<br>27... | .9 | 15 | 5.8 | 9.5 | -- | .1 | .33 | .01 | .07 | .31 | .38 | .72 |
| 01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29) | | | | | | | | | | | | |
| JAN., 1974<br>03... | 1.4 | 15 | 8.4 | 15 | -- | .2 | 1.4 | .01 | .16 | .02 | .18 | 1.6 |
| APR.<br>03... | 1.3 | 14 | 10 | 18 | -- | .1 | 1.4 | .01 | .17 | .07 | .24 | 1.6 |
| JUNE<br>18... | 1.8 | 15 | 7.7 | 12 | -- | .1 | .83 | .01 | .04 | .20 | .24 | 1.1 |
| 01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14) | | | | | | | | | | | | |
| DEC., 1973<br>28... | 1.4 | 5 | 11 | 9.2 | -- | .3 | .34 | .00 | .21 | .57 | .78 | 1.1 |
| MAR., 1974<br>28... | 1.4 | 10 | 12 | 8.7 | -- | .1 | .23 | .00 | .22 | .07 | .29 | .52 |
| JUNE<br>25... | 1.2 | 15 | 14 | 10 | -- | .2 | .24 | .02 | .22 | .43 | .65 | .90 |
| SEP.<br>27... | 1.4 | 19 | 18 | 9.6 | -- | .1 | .13 | .00 | .32 | .13 | .45 | .58 |
| 01304580 - COLD SPRING POND TRIBUTARY AT SHINNECOCK HILL NY (LAT 40 54 05 LONG 072 27 08) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 17 | 78 | 500 | .3 | -- | .10 | .01 | .11 | .63 | .74 | .85 |
| 01304590 - SEBONAL CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 3 | 13 | 13 | .1 | -- | .08 | .01 | .09 | .09 | .18 | .27 |
| 01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 6 | 11 | 17 | .1 | -- | .17 | .01 | .14 | .06 | .20 | .38 |
| 01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 5 | 11 | 31 | .1 | -- | .21 | .01 | .17 | .37 | .54 | .76 |
| 01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 8 | 6.5 | 10 | .1 | -- | .09 | .01 | .09 | .06 | .15 | .25 |
| 01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 6 | 8.5 | 12 | .1 | -- | .02 | .01 | .13 | .14 | .27 | .30 |

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **STREAMS ON LONG ISLAND--Continued** | | | | | | | | | | | |
| 01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 02... | .07 | -- | 119 | 290 | 6.5 | 2.0 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 26... | .05 | -- | 128 | 260 | 6.7 | 10.0 | .1 | <1 | 40 | 3 | <.5 |
| JUNE | | | | | | | | | | | |
| 28... | -- | -- | 168 | 275 | 6.7 | 16.0 | -- | -- | -- | -- | -- |
| 01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 02... | .02 | -- | 38 | 80 | 7.0 | 4.0 | .0 | -- | -- | -- | -- |
| MAR. | | | | | | | | | | | |
| 27... | .05 | -- | 38 | 90 | 7.3 | 6.0 | .0 | 1 | 20 | 5 | <.5 |
| JUNE | | | | | | | | | | | |
| 27... | .02 | .00 | 42 | 67 | 6.9 | 19.5 | .0 | -- | -- | -- | -- |
| 01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 03... | .01 | -- | 56 | 140 | 7.4 | 5.0 | .0 | -- | -- | -- | -- |
| APR. | | | | | | | | | | | |
| 03... | .02 | -- | 63 | 125 | 7.1 | 8.0 | .0 | 1 | 20 | 1 | <.5 |
| JUNE | | | | | | | | | | | |
| 18... | .03 | .01 | 56 | 100 | 6.6 | 20.5 | .0 | -- | -- | -- | -- |
| 01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14) | | | | | | | | | | | |
| DEC., 1973 | | | | | | | | | | | |
| 28... | .08 | -- | 41 | 85 | 7.3 | 7.0 | .0 | -- | -- | -- | -- |
| MAR., 1974 | | | | | | | | | | | |
| 28... | .06 | -- | 43 | 90 | 6.3 | 6.0 | .0 | 0 | 10 | 0 | <.5 |
| JUNE | | | | | | | | | | | |
| 25... | .17 | .03 | 56 | 95 | 6.5 | 20.0 | .0 | -- | -- | -- | -- |
| SEP. | | | | | | | | | | | |
| 27... | .08 | .02 | 60 | 100 | 6.5 | 16.0 | .0 | -- | -- | -- | -- |
| 01304580 - COLD SPRING POND TRIBUTARY AT SHINECOOK HILL NY (LAT 40 54 05 LONG 072 27 08) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 18... | .05 | -- | -- | 1830 | 6.4 | -- | .1 | -- | -- | -- | -- |
| 01304590 - SEHONAL CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 18... | .01 | -- | -- | 96 | 5.8 | 17.0 | .0 | -- | -- | -- | -- |
| 01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 18... | .02 | -- | -- | 100 | 6.3 | 14.5 | .0 | -- | -- | -- | -- |
| 01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 18... | .04 | -- | -- | 110 | 6.2 | 16.0 | .0 | -- | -- | -- | -- |
| 01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 18... | .01 | -- | -- | 50 | 6.9 | 14.5 | .0 | -- | -- | -- | -- |
| 01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 18... | .01 | -- | -- | 75 | 6.5 | 17.0 | .0 | -- | -- | -- | -- |

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | | |
| 01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57) | | | | | | | | | | | | |
| APR., 1974<br>19... | 1350 | .55 | 9.9 | 240 | 50 | 3.1 | -- | 1.6 | -- | 24 | -- | 1.2 |
| 01304672 - TAMBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06) | | | | | | | | | | | | |
| APR., 1974<br>29... | 1030 | .48 | 8.7 | 220 | 90 | 4.6 | -- | 1.3 | -- | 9.2 | -- | .8 |
| 01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22) | | | | | | | | | | | | |
| APR., 1974<br>29... | 1135 | .12 | 8.2 | 770 | 190 | 11 | -- | 1.7 | -- | 11 | -- | .9 |
| 01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53) | | | | | | | | | | | | |
| APR., 1974<br>08... | 1250 | .26 | 4.8 | 710 | 150 | 5.0 | -- | 3.7 | -- | 14 | -- | 2.5 |
| 01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43) | | | | | | | | | | | | |
| APR., 1974<br>08... | 1210 | .24 | .6 | 580 | 60 | 16 | -- | 5.1 | -- | 38 | -- | 1.9 |
| 01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14) | | | | | | | | | | | | |
| APR., 1974<br>08... | 1325 | .96 | 2.6 | 260 | 150000 | 15 | -- | 2.4 | -- | 150 | -- | 1.4 |
| 01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06) | | | | | | | | | | | | |
| APR., 1974<br>08... | 1350 | .39 | 8.4 | 420 | 130 | 4.0 | -- | 3.6 | -- | 20 | -- | 1.9 |
| 01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42) | | | | | | | | | | | | |
| APR., 1974<br>19... | 1300 | .70 | 9.4 | 590 | 190 | 13 | -- | 3.9 | -- | 20 | -- | 3.7 |
| 01304697 - GEORGIA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48) | | | | | | | | | | | | |
| APR., 1974<br>29... | 0925 | .24 | 7.6 | 90 | 40 | 7.6 | -- | 1.4 | -- | 42 | -- | .7 |
| 01304700 - GEORGIA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20) | | | | | | | | | | | | |
| APR., 1974<br>19... | 1215 | .46 | 8.9 | 110 | 30 | 3.6 | -- | 1.6 | -- | 8.4 | -- | .7 |
| 01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1055 | 3.2 | 8.4 | 420 | 50 | 20 | -- | 5.0 | -- | 12 | -- | 3.3 |
| 01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08) | | | | | | | | | | | | |
| APR., 1974<br>18... | 1025 | .46 | 6.5 | 30 | 50 | 27 | -- | 6.5 | -- | 11 | -- | 4.1 |
| 01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26) | | | | | | | | | | | | |
| APR., 1974<br>18... | 0950 | .87 | 6.3 | 70 | 80 | 17 | -- | 5.0 | -- | 9.0 | -- | 4.0 |

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | | |
| 01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57) | | | | | | | | | | | | |
| APR., 1974<br>19... | -- | 8 | 11 | 56 | .1 | -- | .11 | .01 | .08 | .39 | .47 | .59 |
| 01304672 - TAMBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06) | | | | | | | | | | | | |
| APR., 1974<br>29... | -- | 6 | 6.0 | 15 | .1 | -- | .12 | .01 | .13 | .08 | .21 | .34 |
| 01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22) | | | | | | | | | | | | |
| APR., 1974<br>29... | -- | 5 | 12 | 20 | .1 | -- | .00 | .01 | .06 | .18 | .24 | .24 |
| 01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53) | | | | | | | | | | | | |
| APR., 1974<br>08... | -- | 3 | 22 | 24 | .2 | -- | .25 | .02 | .64 | .34 | .98 | 1.3 |
| 01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43) | | | | | | | | | | | | |
| APR., 1974<br>08... | -- | 3 | 20 | 75 | .1 | -- | .02 | .01 | .35 | .17 | .52 | .55 |
| 01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14) | | | | | | | | | | | | |
| APR., 1974<br>08... | -- | 23 | 13 | 26 | .1 | -- | .00 | .02 | .03 | .28 | .31 | .32 |
| 01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06) | | | | | | | | | | | | |
| APR., 1974<br>08... | -- | 3 | 20 | 30 | .2 | -- | .19 | .01 | .34 | .02 | .36 | .56 |
| 01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42) | | | | | | | | | | | | |
| APR., 1974<br>19... | -- | 23 | 19 | 29 | .1 | -- | 3.4 | .06 | .21 | .36 | .57 | 4.1 |
| 01304697 - GEORGIA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48) | | | | | | | | | | | | |
| APR., 1974<br>29... | -- | 7 | 7.0 | 69 | .1 | -- | .00 | .01 | .07 | .00 | .03 | .03 |
| 01304700 - GEORGIA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20) | | | | | | | | | | | | |
| APR., 1974<br>19... | -- | 7 | 4.0 | 13 | .2 | -- | .41 | .01 | .07 | .19 | .26 | .68 |
| 01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 13 | 40 | 22 | .1 | -- | 3.6 | .01 | .11 | .13 | .24 | 3.8 |
| 01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 11 | 64 | 23 | .1 | -- | 5.5 | .01 | .08 | .00 | .08 | 5.6 |
| 01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26) | | | | | | | | | | | | |
| APR., 1974<br>18... | -- | 12 | 39 | 18 | .0 | -- | 4.9 | .01 | .12 | .12 | .24 | 5.1 |

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | |
| 01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57) | | | | | | | | | | | |
| APR., 1974<br>19... | .01 | -- | -- | 252 | 6.3 | 9.5 | .0 | -- | -- | -- | -- |
| 01304672 - TAMBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06) | | | | | | | | | | | |
| APR., 1974<br>29... | .01 | -- | -- | 80 | 6.5 | -- | .0 | -- | -- | -- | -- |
| 01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22) | | | | | | | | | | | |
| APR., 1974<br>29... | .01 | -- | -- | 108 | 4.8 | -- | .0 | -- | -- | -- | -- |
| 01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53) | | | | | | | | | | | |
| APR., 1974<br>08... | .07 | -- | -- | 148 | 5.4 | -- | .1 | -- | -- | -- | -- |
| 01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43) | | | | | | | | | | | |
| APR., 1974<br>08... | .02 | -- | -- | 299 | 5.5 | -- | .1 | -- | -- | -- | -- |
| 01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14) | | | | | | | | | | | |
| APR., 1974<br>08... | .02 | -- | -- | 124 | 4.9 | -- | .0 | -- | -- | -- | -- |
| 01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06) | | | | | | | | | | | |
| APR., 1974<br>08... | .02 | -- | -- | 160 | 5.7 | -- | .0 | -- | -- | -- | -- |
| 01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42) | | | | | | | | | | | |
| APR., 1974<br>19... | .03 | -- | -- | 200 | 6.4 | 10.0 | .0 | -- | -- | -- | -- |
| 01304697 - GEORGIA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48) | | | | | | | | | | | |
| APR., 1974<br>29... | .00 | -- | -- | 258 | 6.1 | -- | .0 | -- | -- | -- | -- |
| 01304700 - GEORGIA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20) | | | | | | | | | | | |
| APR., 1974<br>19... | .01 | -- | -- | 75 | 6.1 | 9.0 | .0 | -- | -- | -- | -- |
| 01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16) | | | | | | | | | | | |
| APR., 1974<br>18... | .02 | -- | -- | 230 | 6.4 | 14.0 | .0 | -- | -- | -- | -- |
| 01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08) | | | | | | | | | | | |
| APR., 1974<br>18... | .01 | -- | -- | 300 | 6.1 | 11.0 | .0 | -- | -- | -- | -- |
| 01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26) | | | | | | | | | | | |
| APR., 1974<br>18... | .10 | -- | -- | 210 | 6.2 | 12.0 | .0 | -- | -- | -- | -- |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | | |
| 01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25) | | | | | | | | | | | | |
| APR., 1974<br>18... | 0915 | 4.0 | .1 | 110 | 50 | 24 | -- | 5.4 | -- | 8.8 | -- | 2.7 |
| 01305500 - SWAN RIVER AT PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39) | | | | | | | | | | | | |
| JAN., 1974<br>07... | 1045 | 13 | 9.5 | 140 | 40 | -- | 5.4 | -- | 1.9 | -- | 7.0 | -- |
| MAR.<br>28... | 1345 | 14 | 8.0 | 130 | 20 | -- | 5.0 | -- | 1.8 | -- | 6.3 | -- |
| JUNE<br>20... | 0915 | 13 | 9.4 | 250 | 90 | -- | 6.0 | -- | 1.9 | -- | 7.1 | -- |
| 01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16) | | | | | | | | | | | | |
| JAN., 1974<br>07... | 1030 | 21 | 8.6 | 300 | 150 | -- | 6.0 | -- | 2.3 | -- | 9.2 | -- |
| MAR.<br>28... | 1500 | 25 | 9.4 | 440 | 120 | -- | 6.0 | -- | 2.3 | -- | 8.6 | -- |
| JUNE<br>26... | 1015 | 19 | 8.6 | 720 | 350 | -- | 7.5 | -- | 2.4 | -- | 9.4 | -- |
| 01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA NY (LAT 40 49 57 LONG 073 07 34) | | | | | | | | | | | | |
| JAN., 1974<br>03... | 1300 | -- | 5.6 | 930 | 170 | -- | 7.3 | -- | 2.6 | -- | 12 | -- |
| APR.<br>03... | 0930 | -- | 2.7 | 900 | 150 | -- | 8.5 | -- | 3.2 | -- | 12 | -- |
| JUNE<br>18... | 1030 | -- | 7.3 | 1600 | 250 | -- | 8.1 | -- | 2.7 | -- | 14 | -- |
| SEP.<br>08... | 0915 | -- | 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01306495 - CONNETQUOT RIVER NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52) | | | | | | | | | | | | |
| JAN., 1974<br>07... | 1215 | 16 | 9.6 | 190 | 40 | -- | 4.1 | -- | 2.3 | -- | 5.6 | -- |
| APR.<br>03... | 1030 | 18 | 9.7 | 100 | 40 | -- | 4.2 | -- | 2.2 | -- | 5.4 | -- |
| JUNE<br>26... | 1230 | 14 | 10 | 150 | 40 | -- | 4.6 | -- | 2.4 | -- | 5.5 | -- |
| 01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03) | | | | | | | | | | | | |
| JAN., 1974<br>07... | 1300 | 28 | 9.6 | 210 | 30 | -- | 4.2 | -- | 2.3 | -- | 5.6 | -- |
| APR.<br>03... | 1000 | 30 | 9.5 | 550 | 50 | -- | 4.3 | -- | 2.4 | -- | 7.1 | -- |
| JUNE<br>26... | 1200 | 24 | 10 | 300 | 50 | -- | 5.0 | -- | 3.5 | -- | 15 | -- |
| 01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08) | | | | | | | | | | | | |
| JAN., 1974<br>07... | 1430 | -- | 10 | 410 | 460 | -- | 8.5 | -- | 2.8 | -- | 13 | -- |
| APR.<br>03... | 1200 | -- | 10 | 250 | 450 | -- | 8.6 | -- | 2.6 | -- | 13 | -- |
| JUNE<br>27... | 0845 | -- | 11 | 380 | 460 | -- | 8.7 | -- | 2.8 | -- | 13 | -- |
| 01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41) | | | | | | | | | | | | |
| JAN., 1974<br>07... | 1330 | 7.3 | 8.9 | 850 | 210 | -- | 21 | -- | 3.6 | -- | 66 | -- |
| APR.<br>03... | 1230 | 6.8 | 9.7 | 410 | 660 | -- | 15 | -- | 3.4 | -- | 36 | -- |
| JUNE<br>27... | 0945 | 4.8 | 9.8 | 250 | 470 | -- | 15 | -- | 3.8 | -- | 35 | -- |

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STREAMS ON LONG ISLAND--Continued

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25) | | | | | | | | | | | | |
| APR., 1974 18... | -- | 9 | 56 | 18 | .0 | -- | 1.6 | .03 | .16 | .43 | .59 | 2.2 |
| 01305500 - SWAN RIVER AT PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39) | | | | | | | | | | | | |
| JAN., 1974 07... | 1.1 | 16 | 7.4 | 9.5 | -- | .3 | 1.5 | .01 | .08 | .05 | .13 | 1.6 |
| MAR. 28... | 1.3 | 13 | 7.2 | 8.6 | -- | .1 | 1.4 | .02 | .09 | .11 | .20 | 1.6 |
| JUNE 20... | 1.3 | 16 | 8.1 | 8.6 | -- | .1 | 1.6 | .03 | .14 | .09 | .23 | 1.8 |
| 01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16) | | | | | | | | | | | | |
| JAN., 1974 07... | 1.2 | 18 | 10 | 12 | -- | .2 | 1.4 | .02 | .09 | .07 | .16 | 1.6 |
| MAR. 28... | 1.6 | 15 | 11 | 12 | -- | .1 | 1.4 | .00 | .12 | .12 | .24 | 1.6 |
| JUNE 26... | 1.6 | 22 | 11 | 12 | -- | .0 | 1.1 | .02 | .27 | .08 | .35 | 1.5 |
| 01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA NY (LAT 40 49 57 LONG 073 07 34) | | | | | | | | | | | | |
| JAN., 1974 03... | 2.3 | 17 | 15 | 17 | -- | .1 | .50 | .01 | .14 | .40 | .54 | 1.0 |
| APR. 03... | 2.2 | 23 | 16 | 18 | -- | .1 | .75 | .01 | .53 | .21 | .74 | 1.5 |
| JUNE 18... | 2.1 | 20 | 17 | 22 | -- | .1 | .10 | .02 | .23 | .57 | .80 | .92 |
| SEP. 08... | -- | 21 | 12 | 20 | -- | .1 | .60 | .01 | .62 | .09 | .71 | 1.3 |
| 01306495 - CONNETQUOT RIVER NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52) | | | | | | | | | | | | |
| JAN., 1974 07... | .7 | 18 | 5.7 | 7.4 | -- | .3 | .99 | .01 | .02 | .10 | .12 | 1.1 |
| APR. 03... | 6.9 | 14 | 7.3 | 13 | -- | .2 | 1.0 | .00 | .12 | .03 | .15 | 1.1 |
| JUNE 26... | .8 | 17 | 6.3 | 6.9 | -- | .1 | 1.1 | .01 | .03 | .14 | .17 | 1.3 |
| 01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03) | | | | | | | | | | | | |
| JAN., 1974 07... | .7 | 17 | 5.8 | 7.6 | -- | .3 | .98 | .01 | .03 | .17 | .20 | 1.2 |
| APR. 03... | .9 | 14 | 6.8 | 11 | -- | .0 | .97 | .01 | .01 | .13 | .14 | 1.1 |
| JUNE 26... | 1.3 | 17 | 8.8 | 24 | -- | .1 | 1.1 | .02 | .07 | .12 | .19 | 1.3 |
| 01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08) | | | | | | | | | | | | |
| JAN., 1974 07... | 1.7 | 22 | 17 | 17 | -- | .2 | 1.8 | .01 | .75 | .21 | .96 | 2.8 |
| APR. 03... | 2.2 | 18 | 19 | 17 | -- | .0 | 2.5 | .01 | .01 | .69 | .70 | 3.2 |
| JUNE 27... | 2.0 | 19 | 19 | 16 | -- | .1 | 2.1 | .04 | .63 | .30 | .93 | 3.0 |
| 01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41) | | | | | | | | | | | | |
| JAN., 1974 07... | 3.3 | 24 | 21 | 120 | -- | .3 | 3.2 | .04 | .79 | .21 | 1.0 | 4.2 |
| APR. 03... | 3.0 | 23 | 22 | 61 | -- | .1 | 3.2 | .03 | .91 | .00 | .91 | 4.1 |
| JUNE 27... | 2.9 | 19 | 21 | 58 | -- | .1 | 3.4 | .08 | .41 | .11 | .52 | 4.0 |

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | |
| 01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25) | | | | | | | | | | | |
| APR., 1974<br>18... | .02 | -- | -- | 225 | 6.6 | 11.5 | .0 | -- | -- | -- | -- |
| 01305500 - SWAN RIVER AT PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39) | | | | | | | | | | | |
| JAN., 1974<br>07... | .02 | -- | 50 | 100 | 6.7 | .5 | .0 | -- | -- | -- | -- |
| MAR.<br>28... | .02 | -- | 45 | 90 | 6.6 | 10.0 | .0 | -- | -- | -- | -- |
| JUNE<br>20... | .03 | .01 | 57 | 90 | 6.8 | 14.0 | .0 | -- | -- | -- | -- |
| 01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16) | | | | | | | | | | | |
| JAN., 1974<br>07... | .02 | -- | 50 | 122 | 7.6 | 4.0 | .0 | -- | -- | -- | -- |
| MAR.<br>28... | .03 | -- | 58 | 120 | 6.5 | 7.0 | .0 | 1 | 10 | 3 | <.5 |
| JUNE<br>26... | .03 | .00 | 67 | 110 | 6.7 | 18.0 | .1 | -- | -- | -- | -- |
| 01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA NY (LAT 40 49 57 LONG 073 07 34) | | | | | | | | | | | |
| JAN., 1974<br>03... | .01 | -- | 70 | 135 | 7.3 | 3.0 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .05 | -- | 74 | 130 | 6.4 | 8.0 | .1 | 3 | 20 | 24 | <.5 |
| JUNE<br>18... | .03 | .01 | 84 | 135 | 6.0 | 21.0 | .1 | -- | -- | -- | -- |
| SEP.<br>08... | .02 | .01 | -- | 150 | 5.7 | 11.0 | .1 | -- | -- | -- | -- |
| 01306495 - CONNETQUOT RIVER NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52) | | | | | | | | | | | |
| JAN., 1974<br>07... | .02 | -- | 45 | 80 | 7.6 | 5.0 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .01 | -- | 56 | 80 | 6.6 | 10.5 | .0 | 0 | 0 | 0 | <.5 |
| JUNE<br>26... | .02 | .01 | 49 | 80 | 6.8 | 14.5 | .1 | -- | -- | -- | -- |
| 01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03) | | | | | | | | | | | |
| JAN., 1974<br>07... | .04 | -- | 44 | 82 | 7.7 | 6.0 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .02 | -- | 49 | 100 | 7.2 | 10.5 | .0 | 1 | 20 | 28 | <.5 |
| JUNE<br>26... | .03 | .00 | 88 | 150 | 6.8 | 15.0 | .0 | -- | -- | -- | -- |
| 01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08) | | | | | | | | | | | |
| JAN., 1974<br>07... | .04 | -- | 81 | 165 | 7.1 | 10.0 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .02 | -- | 81 | 160 | 6.6 | 13.0 | .1 | 0 | 0 | 4 | <.5 |
| JUNE<br>27... | .04 | .01 | 90 | 150 | 6.1 | 13.0 | -- | -- | -- | -- | -- |
| 01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41) | | | | | | | | | | | |
| JAN., 1974<br>07... | .03 | -- | 256 | 500 | 7.2 | 9.5 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .02 | -- | 162 | 330 | 6.7 | 15.0 | .0 | 1 | 20 | 5 | <.5 |
| JUNE<br>27... | .04 | .00 | 170 | 315 | 6.4 | 14.0 | .1 | -- | -- | -- | -- |

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTAN-TANEOUS DIS-CHARGE (CFS) | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **STREAMS ON LONG ISLAND--Continued** | | | | | | | | | | | | |
| **01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 08... | 0930 | 11 | 7.8 | 890 | 1300 | -- | 10 | -- | 3.0 | -- | 20 | -- |
| APR. | | | | | | | | | | | | |
| 03... | 1300 | 16 | 8.0 | 4500 | 1600 | -- | 14 | -- | 3.2 | -- | 20 | -- |
| JUNE | | | | | | | | | | | | |
| 27... | 1030 | 7.6 | 7.8 | 2700 | 1000 | -- | 12 | -- | 3.0 | -- | 18 | -- |
| **01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 08... | 1300 | 34 | 7.6 | 570 | 880 | -- | 11 | -- | 3.2 | -- | 21 | -- |
| APR. | | | | | | | | | | | | |
| 03... | 1345 | 34 | 6.9 | 430 | 720 | -- | 11 | -- | 3.1 | -- | 23 | -- |
| JUNE | | | | | | | | | | | | |
| 27... | 1230 | 23 | 7.5 | 400 | 420 | -- | 11 | -- | 3.1 | -- | 18 | -- |
| **01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 08... | 1030 | -- | 7.5 | 71000 | 17000 | -- | 22 | -- | 5.3 | -- | 25 | -- |
| APR. | | | | | | | | | | | | |
| 03... | 1415 | -- | 7.2 | 530 | 1300 | -- | 15 | -- | 4.5 | -- | 29 | -- |
| JUNE | | | | | | | | | | | | |
| 25... | 1345 | -- | 9.0 | 880 | 2200 | -- | 15 | -- | 4.5 | -- | 25 | -- |
| **01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 16... | 1410 | 8.4 | 9.1 | 380 | 1100 | -- | 20 | -- | 3.5 | -- | 30 | -- |
| APR. | | | | | | | | | | | | |
| 02... | 1000 | 9.5 | 9.2 | 360 | 1200 | -- | 20 | -- | 3.3 | -- | 31 | -- |
| JUNE | | | | | | | | | | | | |
| 27... | 1350 | 4.1 | 8.6 | 620 | 640 | -- | 24 | -- | 3.4 | -- | 31 | -- |
| **01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 08... | 1400 | 3.1 | 8.5 | 540 | 1100 | -- | 23 | -- | 4.0 | -- | 33 | -- |
| APR. | | | | | | | | | | | | |
| 02... | 1030 | 4.6 | 9.1 | 320 | 1200 | -- | 22 | -- | 3.8 | -- | 31 | -- |
| JUNE | | | | | | | | | | | | |
| 27... | 0810 | 5.5 | 9.4 | 550 | 1000 | -- | 25 | -- | 3.8 | -- | 31 | -- |
| **01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 15... | 1130 | .59 | 8.0 | 660 | 1000 | -- | 28 | -- | 7.5 | -- | 19 | -- |
| APR. | | | | | | | | | | | | |
| 02... | 0900 | 2.2 | 8.5 | 520 | 1100 | -- | 28 | -- | 7.5 | -- | 25 | -- |
| JUNE | | | | | | | | | | | | |
| 25... | 1000 | .31 | 7.1 | 450 | 720 | -- | 34 | -- | 8.6 | -- | 30 | -- |
| **01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)** | | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | | |
| 16... | 1430 | .00 | 1.9 | 450 | 70 | -- | 6.5 | -- | 2.6 | -- | 44 | -- |
| MAR. | | | | | | | | | | | | |
| 27... | 1100 | .00 | .9 | 270 | 30 | -- | 5.2 | -- | 1.2 | -- | 7.6 | -- |
| JUNE | | | | | | | | | | | | |
| 25... | 0829 | .00 | 8.1 | 490 | 200 | -- | 18 | -- | 3.0 | -- | 54 | -- |

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL FLUO-RIDE (F) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | | |
| 01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52) | | | | | | | | | | | | |
| JAN., 1974<br>08... | 3.0 | 30 | 24 | 26 | -- | .3 | 2.6 | .02 | 2.0 | -- | 1.9 | 4.5 |
| APR.<br>03... | 3.8 | 34 | 30 | 24 | -- | .2 | 6.0 | .24 | .45 | 2.9 | 3.4 | 9.6 |
| JUNE<br>27... | 3.3 | 33 | 26 | 21 | -- | .4 | 2.5 | .03 | 2.1 | .10 | 2.2 | 4.7 |
| 01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44) | | | | | | | | | | | | |
| JAN., 1974<br>08... | 3.2 | 31 | 25 | 28 | -- | .1 | 3.0 | .02 | 1.7 | .20 | 1.9 | 4.9 |
| APR.<br>03... | 3.0 | 25 | 24 | 30 | -- | .1 | 4.3 | .01 | .00 | 1.5 | 1.5 | 5.8 |
| JUNE<br>27... | 3.0 | 21 | 26 | 22 | -- | .1 | 2.8 | .07 | 1.0 | .10 | 1.1 | 4.0 |
| 01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20) | | | | | | | | | | | | |
| JAN., 1974<br>08... | 4.4 | 28 | 53 | 34 | -- | .2 | 1.3 | .01 | .71 | 13 | 14 | 15 |
| APR.<br>03... | 5.0 | 40 | 38 | 38 | -- | .1 | 3.3 | .01 | .00 | 1.9 | 1.9 | 5.2 |
| JUNE<br>25... | 4.3 | 38 | 35 | 33 | -- | .1 | 1.2 | .06 | 1.6 | .10 | 1.7 | 3.0 |
| 01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58) | | | | | | | | | | | | |
| JAN., 1974<br>15... | 5.6 | 38 | 44 | 33 | -- | .0 | 6.8 | .18 | -- | -- | 2.1 | 9.1 |
| APR.<br>02... | 5.0 | 37 | 44 | 34 | -- | .0 | 8.6 | 1.4 | .44 | 2.1 | 2.5 | 12 |
| JUNE<br>27... | 5.8 | 18 | 45 | 35 | -- | .1 | -- | -- | -- | -- | -- | -- |
| 01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46) | | | | | | | | | | | | |
| JAN., 1974<br>08... | 7.4 | 50 | 46 | 34 | -- | .1 | 8.2 | .02 | 2.7 | -- | 2.3 | 10 |
| APR.<br>02... | 6.6 | 44 | 46 | 33 | -- | .0 | 8.2 | .58 | 2.0 | .60 | 2.6 | 11 |
| JUNE<br>27... | 7.1 | 38 | 55 | 32 | -- | .1 | -- | -- | -- | -- | -- | -- |
| 01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35) | | | | | | | | | | | | |
| JAN., 1974<br>15... | 3.7 | 45 | 51 | 30 | -- | .0 | 3.6 | .03 | .64 | -- | .58 | 4.2 |
| APR.<br>02... | 4.5 | 54 | 54 | 40 | -- | .0 | 4.6 | .01 | .01 | .85 | .86 | 5.5 |
| JUNE<br>25... | 4.8 | 65 | 54 | 48 | -- | .1 | 1.9 | .11 | .45 | 1.1 | 1.5 | 3.5 |
| 01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18) | | | | | | | | | | | | |
| JAN., 1974<br>16... | 1.0 | 24 | 9.5 | 68 | -- | .0 | .07 | .01 | .11 | .33 | .44 | .52 |
| MAR.<br>27... | 1.2 | 21 | 4.5 | 11 | -- | .0 | .37 | .00 | .08 | .31 | .39 | .76 |
| JUNE<br>25... | 2.2 | 59 | 24 | 78 | -- | .2 | .31 | .05 | .06 | 1.1 | 1.2 | 1.6 |

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS ON LONG ISLAND--Continued | | | | | | | | | | | |
| 01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52) | | | | | | | | | | | |
| JAN., 1974<br>08... | .02 | -- | 109 | 238 | 6.4 | .5 | .1 | -- | -- | -- | -- |
| APR.<br>03... | .02 | -- | 120 | 250 | 6.4 | 13.0 | .2 | 1 | 20 | 75 | .9 |
| JUNE<br>27... | .07 | .01 | 118 | 210 | 6.0 | 16.0 | .1 | -- | -- | -- | -- |
| 01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44) | | | | | | | | | | | |
| JAN., 1974<br>08... | .02 | -- | 114 | 251 | 7.9 | 3.0 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .02 | -- | 113 | 230 | 6.8 | 12.0 | .1 | 1 | 20 | 11 | <.5 |
| JUNE<br>27... | .02 | .00 | 113 | 200 | 6.4 | 17.5 | .1 | -- | -- | -- | -- |
| 01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20) | | | | | | | | | | | |
| JAN., 1974<br>08... | 1.3 | -- | 165 | 310 | 6.2 | 4.0 | .0 | -- | -- | -- | -- |
| APR.<br>03... | .02 | -- | 156 | 300 | 6.6 | 15.0 | .1 | <1 | 20 | 10 | .8 |
| JUNE<br>25... | .02 | .00 | 150 | 275 | 5.8 | 14.0 | .2 | -- | -- | -- | -- |
| 01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58) | | | | | | | | | | | |
| JAN., 1974<br>15... | .01 | -- | 164 | 355 | 6.2 | 8.0 | .0 | -- | -- | -- | -- |
| APR.<br>02... | .01 | -- | 165 | 350 | 6.5 | 10.0 | .1 | 1 | 10 | 5 | <.5 |
| JUNE<br>27... | -- | -- | 187 | 360 | 6.0 | 18.0 | -- | -- | -- | -- | -- |
| 01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46) | | | | | | | | | | | |
| JAN., 1974<br>08... | .05 | -- | 181 | 380 | 6.8 | 8.0 | .0 | -- | -- | -- | -- |
| APR.<br>02... | .01 | -- | 173 | 360 | 6.6 | 11.0 | .1 | 0 | 10 | 9 | <.5 |
| JUNE<br>27... | -- | -- | 216 | 390 | 6.1 | 16.0 | -- | -- | -- | -- | -- |
| 01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35) | | | | | | | | | | | |
| JAN., 1974<br>15... | .01 | -- | 169 | 340 | 6.0 | 3.0 | .0 | -- | -- | -- | -- |
| APR.<br>02... | .02 | -- | 194 | 390 | 6.4 | 8.0 | .1 | 2 | 10 | 24 | <.5 |
| JUNE<br>25... | .06 | .01 | 223 | 445 | 6.9 | 18.0 | .1 | -- | -- | -- | -- |
| 01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18) | | | | | | | | | | | |
| JAN., 1974<br>16... | .04 | -- | 145 | 375 | 7.8 | .0 | .0 | -- | -- | -- | -- |
| MAR.<br>27... | .07 | -- | 42 | 87 | 7.3 | 4.0 | .1 | 1 | 0 | 37 | <.5 |
| JUNE<br>25... | .09 | .05 | 218 | 440 | 6.3 | 17.0 | .2 | -- | -- | -- | -- |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HUDSON RIVER BASIN | | | | | | | | | | | |
| 01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 06... | 1145 | 28400 | 3.8 | 3200 | 110 | -- | 24 | -- | 3.4 | -- | 3.8 |
| 01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 22... | 1115 | E6090 | 4.3 | 450 | 40 | -- | 28 | -- | 4.9 | -- | 12 |
| MAR. | | | | | | | | | | | |
| 11... | -- | E11100 | 3.7 | 880 | 50 | -- | 25 | -- | 4.2 | -- | 5.2 |
| MAY | | | | | | | | | | | |
| 20... | 1300 | E7350 | 3.6 | 710 | 70 | 24 | -- | 4.0 | -- | 5.3 | -- |

| DATE | TOTAL POTASSIUM (K) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 06... | -- | 1.3 | 69 | 0 | 57 | 16 | 6.6 | -- | .1 | .86 | .01 |
| 01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 22... | -- | 1.1 | 82 | 0 | 67 | 25 | 17 | -- | .1 | .72 | .03 |
| MAR. | | | | | | | | | | | |
| 11... | -- | 1.3 | 74 | 0 | 61 | 19 | 8.4 | -- | .1 | .74 | .07 |
| MAY | | | | | | | | | | | |
| 20... | 1.2 | -- | 74 | 0 | 61 | 17 | 8.6 | .1 | -- | .46 | .06 |

| DATE | AMMONIA NITROGEN (N) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | TOTAL ORTHO PHOSPHORUS (P) (MG/L) | DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | TOTAL RESIDUE (MG/L) | RESIDUE ON IGNITION (MG/L) | TOTAL NON-FILTRABLE RESIDUE (MG/L) | FIXED NON-FILTRABLE RESIDUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | 93 | -- | -- | -- | -- |
| 01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 22... | .44 | .21 | .65 | .07 | -- | .04 | 133 | 171 | 94 | 3 | 2 |
| MAR. | | | | | | | | | | | |
| 11... | .19 | .18 | .37 | .04 | -- | .06 | 103 | 149 | 124 | 38 | 29 |
| MAY | | | | | | | | | | | |
| 20... | .12 | .36 | .48 | .07 | .03 | -- | -- | 154 | 125 | 32 | 27 |

| DATE | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | METHYLENE BLUE ACTIVE SUBSTANCE (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16) | | | | | | | | | | | |
| APR., 1974 | | | | | | | | | | | |
| 06... | 74 | 17 | 165 | 7.7 | 5.0 | -- | -- | -- | -- | -- | -- |
| 01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37) | | | | | | | | | | | |
| JAN., 1974 | | | | | | | | | | | |
| 22... | 90 | 23 | 250 | 7.4 | -- | 9 | .0 | 3 | 20 | 7 | <.5 |
| MAR. | | | | | | | | | | | |
| 11... | 80 | 19 | 197 | 7.5 | -- | 9 | .0 | 3 | 10 | 2 | <.5 |
| MAY | | | | | | | | | | | |
| 20... | -- | -- | 216 | 7.8 | -- | 13 | .0 | 1 | 10 | 3 | <.5 |

E Estimated value.

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES—Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUSQUEHANNA RIVER BASIN | | | | | | | | | | | | |
| 01501006 - N BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 33 LONG 075 20 20) | | | | | | | | | | | | |
| APR., 1974<br>30... | 1130 | 3.0 | 3.6 | 150 | 30 | 30 | 2.6 | 2.3 | 1.0 | 88 | 0 | 72 |
| 01501009 - S BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 20 22) | | | | | | | | | | | | |
| APR., 1974<br>30... | 1130 | 2.4 | 2.8 | 80 | 30 | 28 | 2.8 | 3.0 | .9 | 92 | 0 | 75 |
| 01501012 - MILLBROOK WEST OF NEW BERLIN NY (LAT 42 37 28 LONG 075 20 15) | | | | | | | | | | | | |
| APR., 1974<br>30... | 1200 | 4.9 | 3.2 | 430 | 30 | 27 | 2.6 | 2.5 | .9 | 90 | 0 | 74 |
| 01501015 - MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 19 42) | | | | | | | | | | | | |
| APR., 1974<br>30... | 1200 | 5.4 | 3.4 | 280 | 10 | 28 | 2.7 | 3.1 | .9 | 92 | 0 | 75 |
| 01508802 - FACTORY BROOK AT HOMER NY (LAT 42 38 36 LONG 076 10 41) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1545 | 11 | 2.0 | 190 | 10 | 42 | 10 | 4.6 | 1.0 | 146 | 0 | 120 |

| DATE | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01501006 - N BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 33 LONG 075 20 20) | | | | | | | | | | | |
| APR., 1974<br>30... | 12 | 2.2 | .1 | .84 | .01 | 220 | 8.0 | 11.5 | -- | -- | -- |
| 01501009 - S BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 20 22) | | | | | | | | | | | |
| APR., 1974<br>30... | 12 | 6.2 | .1 | .99 | .01 | 252 | 7.9 | 12.0 | -- | -- | -- |
| 01501012 - MILLBROOK WEST OF NEW BERLIN NY (LAT 42 37 28 LONG 075 20 15) | | | | | | | | | | | |
| APR., 1974<br>30... | 12 | 3.8 | .1 | .93 | .01 | 227 | 7.9 | 12.0 | -- | -- | -- |
| 01501015 - MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 19 42) | | | | | | | | | | | |
| APR., 1974<br>30... | 13 | 4.4 | .1 | .96 | .01 | 229 | 7.8 | 13.0 | -- | -- | -- |
| 01508802 - FACTORY BROOK AT HOMER NY (LAT 42 38 36 LONG 076 10 41) | | | | | | | | | | | |
| JUNE, 1974<br>13... | 15 | 7.5 | .1 | 3.1 | .01 | 345 | 8.1 | 18.0 | 8100 | 430 | 19 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | TOTAL CALCIUM (CA) (MG/L) | TOTAL MAGNESIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SUSQUEHANNA RIVER BASIN--Continued | | | | | | | | | | | | |
| 01508905 - DRY CREEK AT CORTLAND NY (LAT 42 36 30 LONG 076 13 30) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1515 | E.12 | 3.1 | 970 | 70 | 34 | 5.4 | 3.8 | 1.0 | 106 | 0 | 87 |
| 01508910 - BLUE CREEK NEAR CORTLAND NY (LAT 42 37 25 LONG 076 12 53) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1050 | .81 | 2.1 | 160 | 20 | 28 | 5.2 | 4.3 | 1.0 | 95 | 0 | 78 |
| 01508913 - BLUE CREEK AT CORTLAND NY (LAT 42 36 15 LONG 076 12 56) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1430 | 1.8 | 1.7 | 60 | 0 | 30 | 5.2 | 3.6 | 1.0 | 100 | 0 | 82 |
| 01508915 - DRY CREEK BELOW BLUE CREEK AT CORTLAND NY (LAT 42 36 06 LONG 076 12 50) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1500 | 2.7 | 2.1 | 220 | 0 | 34 | 5.4 | 4.0 | 1.1 | 101 | 0 | 83 |
| 01508918 - DRY CREEK ABOVE CORTLAND NY (LAT 42 35 58 LONG 076 12 14) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1600 | 3.2 | 1.4 | 100 | 0 | 36 | 5.4 | 4.1 | 1.1 | 101 | 0 | 83 |
| 01508925 - DRY CREEK AT HAMLIN ST AT CORTLAND NY (LAT 42 36 17 LONG 076 11 31) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 1600 | 1.4 | .8 | 50 | 0 | 32 | 5.4 | 4.0 | 1.0 | 102 | 0 | 84 |

| DATE | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | TOTAL FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01508905 - DRY CREEK AT CORTLAND NY (LAT 42 36 30 LONG 076 13 30) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 14 | 6.9 | .2 | 1.7 | .01 | 1.7 | 275 | 7.6 | 10.0 | B9900 | B1200 | 380 |
| 01508910 - BLUE CREEK NEAR CORTLAND NY (LAT 42 37 25 LONG 076 12 53) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 12 | 7.7 | .2 | .26 | .01 | .27 | 230 | 7.2 | 12.0 | 2800 | 140 | 110 |
| 01508913 - BLUE CREEK AT CORTLAND NY (LAT 42 36 15 LONG 076 12 56) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 13 | 6.1 | .1 | .60 | .01 | .61 | 250 | 7.2 | 20.0 | B1700 | B1300 | 280 |
| 01508915 - DRY CREEK BELOW BLUE CREEK AT CORTLAND NY (LAT 42 36 06 LONG 076 12 50) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 14 | 8.8 | .1 | 1.2 | .01 | 1.2 | 270 | 6.9 | 18.0 | 1900 | B300 | 250 |
| 01508918 - DRY CREEK ABOVE CORTLAND NY (LAT 42 35 58 LONG 076 12 14) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 14 | 7.6 | .1 | 1.5 | .01 | 1.5 | 260 | 7.8 | 18.5 | 5200 | 440 | 64 |
| 01508925 - DRY CREEK AT HAMLIN ST AT CORTLAND NY (LAT 42 36 17 LONG 076 11 31) | | | | | | | | | | | | |
| JUNE, 1974<br>13... | 14 | 7.8 | .2 | 1.5 | .01 | 1.5 | 255 | 7.8 | 20.0 | 4200 | 600 | 290 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated value.

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

### STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | DISSOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) | DISSOLVED SODIUM (NA) (MG/L) | DISSOLVED POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CACO3 (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04272540 - TWO BRIDGE BROOK NEAR SARANAC LAKE NY (LAT 44 22 15 LONG 074 09 33) | | | | | | | | | | | | |
| OCT., 1973<br>11... | 0920 | 15 | 7.9 | 1500 | 40 | 5.5 | 1.8 | 2.7 | .5 | 17 | 0 | 14 |
| 04272550 - TWOBRIDGE BROOK AT BLOOMINGDALE NY (LAT 44 24 44 LONG 074 06 40) | | | | | | | | | | | | |
| OCT., 1973<br>11... | 0950 | 7.7 | 9.1 | 1100 | 90 | 5.6 | 2.0 | 4.0 | .6 | 22 | 0 | 18 |
| 04272560 - NEGRO BROOK AT BLOOMINGDALE NY (LAT 44 25 14 LONG 074 07 08) | | | | | | | | | | | | |
| OCT., 1973<br>11... | 1215 | 16 | 12 | 470 | 20 | 6.0 | 2.0 | 1.5 | .6 | 22 | 0 | 18 |
| 04272570 - RICKERSON BROOK NEAR BLOOMINGDALE NY (LAT 44 24 56 LONG 074 08 16) | | | | | | | | | | | | |
| OCT., 1973<br>11... | 1145 | 7.3 | 11 | 860 | 40 | 11 | 4.0 | 2.7 | .6 | 26 | 0 | 21 |
| 04272580 - LYON BROOK AT BLOOMINGDALE NY (LAT 44 25 19 LONG 074 05 35) | | | | | | | | | | | | |
| OCT., 1973<br>11... | 1120 | 9.8 | 11 | 550 | 40 | 7.2 | 2.5 | 2.7 | .7 | 30 | 0 | 25 |
| 04272600 - SUMMER BROOK AT BLOOMINGDALE, N.Y. (LAT 44 24 30 LONG 074 05 03) | | | | | | | | | | | | |
| OCT., 1973<br>11... | 0935 | 60 | 10 | 1100 | 40 | 6.5 | 2.3 | 2.2 | .5 | 23 | 0 | 19 |

| DATE | DISSOLVED SULFATE (SO4) (MG/L) | DISSOLVED CHLORIDE (CL) (MG/L) | DISSOLVED FLUORIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) | HARDNESS (CA,MG) (MG/L) | NONCARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04272540 - TWO BRIDGE BROOK NEAR SARANAC LAKE NY (LAT 44 22 15 LONG 074 09 33) | | | | | | | | | | | |
| OCT., 1973<br>11... | 5.5 | 3.5 | .5 | .08 | .00 | 36 | 21 | 7 | 55 | 6.6 | 5.5 |
| 04272550 - TWOBRIDGE BROOK AT BLOOMINGDALE NY (LAT 44 24 44 LONG 074 06 40) | | | | | | | | | | | |
| OCT., 1973<br>11... | 4.9 | 5.2 | .5 | .07 | .00 | 43 | 22 | 4 | 64 | 6.8 | 5.5 |
| 04272560 - NEGRO BROOK AT BLOOMINGDALE NY (LAT 44 25 14 LONG 074 07 08) | | | | | | | | | | | |
| OCT., 1973<br>11... | 5.9 | .9 | .4 | .14 | .00 | 40 | 23 | 5 | 54 | 6.9 | 7.5 |
| 04272570 - RICKERSON BROOK NEAR BLOOMINGDALE NY (LAT 44 24 56 LONG 074 08 16) | | | | | | | | | | | |
| OCT., 1973<br>11... | 17 | 4.6 | .5 | 1.1 | .00 | 64 | 44 | 23 | 102 | 6.9 | 7.0 |
| 04272580 - LYON BROOK AT BLOOMINGDALE NY (LAT 44 25 19 LONG 074 05 35) | | | | | | | | | | | |
| OCT., 1973<br>11... | 6.5 | 3.0 | .4 | .14 | .00 | 49 | 28 | 6 | 70 | 7.0 | 6.5 |
| 04272600 - SUMMER BROOK AT BLOOMINGDALE, N.Y. (LAT 44 24 30 LONG 074 05 03) | | | | | | | | | | | |
| OCT., 1973<br>11... | 8.0 | 2.5 | .4 | .21 | .00 | 44 | 26 | 7 | 62 | 6.8 | 8.0 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | TOTAL CAL-CIUM (CA) (MG/L) | TOTAL MAG-NE-SIUM (MG) (MG/L) | TOTAL SODIUM (NA) (MG/L) | TOTAL PO-TAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued | | | | | | | | | | |
| 432506073421500 - LAKE GEORGE AT LAKE GEORGE NY (LAT 43 25 06 LONG 073 42 15) | | | | | | | | | | |
| SEP., 1974<br>23... | 1530 | 50 | 30 | 11 | 2.6 | 2.6 | .5 | 29 | 24 | 10 |
| 433425073363000 - LAKE GEORGE AT THE NARROWS NY (LAT 43 34 25 LONG 073 36 30) | | | | | | | | | | |
| SEP., 1974<br>23... | 1400 | 70 | 30 | 13 | 2.8 | 2.5 | .7 | 27 | 22 | 19 |
| 434915073255300 - LAKE GEORGE AT MOSSY POINT NY (LAT 43 49 15 LONG 073 25 53) | | | | | | | | | | |
| SEP., 1974<br>23... | 1120 | 180 | 60 | 13 | 3.0 | 2.5 | .6 | 23 | 19 | 12 |

| DATE | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | TOTAL ORTHO PHOS-PHORUS (P) (MG/L) | TOTAL RESI-DUE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 432506073421500 - LAKE GEORGE AT LAKE GEORGE NY (LAT 43 25 06 LONG 073 42 15) | | | | | | | | | | |
| SEP., 1974<br>23... | 5.7 | .02 | .00 | .05 | .16 | .21 | .23 | .00 | .00 | 65 |
| 433425073363000 - LAKE GEORGE AT THE NARROWS NY (LAT 43 34 25 LONG 073 36 30) | | | | | | | | | | |
| SEP., 1974<br>23... | 4.3 | .01 | .00 | .06 | .89 | .95 | .96 | .01 | .01 | 59 |
| 434915073255300 - LAKE GEORGE AT MOSSY POINT NY (LAT 43 49 15 LONG 073 25 53) | | | | | | | | | | |
| SEP., 1974<br>23... | 13 | .01 | .00 | .09 | .15 | .24 | .25 | .01 | .01 | 66 |

| DATE | RESIDUE ON IGNI-TION (MG/L) | TOTAL NON-FILT-RABLE RESIDUE (MG/L) | FIXED NON-FILT-RABLE RESIDUE (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 432506073421500 - LAKE GEORGE AT LAKE GEORGE NY (LAT 43 25 06 LONG 073 42 15) | | | | | | | | | | |
| SEP., 1974<br>23... | 61 | 4 | 2 | 99 | 7 | 3.9 | <1 | 0 | 4 | <.5 |
| 433425073363000 - LAKE GEORGE AT THE NARROWS NY (LAT 43 34 25 LONG 073 36 30) | | | | | | | | | | |
| SEP., 1974<br>23... | 56 | 1 | 0 | 95 | 8 | 3.2 | <1 | 10 | 9 | <.5 |
| 434915073255300 - LAKE GEORGE AT MOSSY POINT NY (LAT 43 49 15 LONG 073 25 53) | | | | | | | | | | |
| SEP., 1974<br>23... | 47 | 4 | 1 | 104 | 8 | 4.1 | 1 | 0 | 4 | <.5 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

## MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| 01336600 - MOHAWK RIVER (CANAL SECT) AT ROME NY (LAT 43 11 58 LONG 075 23 24) | | | | | |
| JUNE, 1974 | | | | | |
| 12... | 1100 | <1 | 240 | 7 | <.5 |
| 01337450 - ORISKANY CREEK AT WALESVILLE NY (LAT 43 06 56 LONG 073 21 59) | | | | | |
| JULY, 1974 | | | | | |
| 10... | 0935 | 0 | 10 | 5 | 2.7 |
| 01338600 - MOHAWK RIVER ABOVE WHITESBORO NY (LAT 43 08 23 LONG 075 18 12) | | | | | |
| OCT., 1973 | | | | | |
| 17... | 1700 | <1 | 110 | 4 | <.5 |
| JUNE, 1974 | | | | | |
| 12... | 1200 | 1 | 70 | 1 | 8.7 |
| 01342755 - MOHAWK RIVER AT HERKIMER NY (LAT 43 01 01 LONG 074 59 48) | | | | | |
| OCT., 1973 | | | | | |
| 17... | 1200 | 1 | 30 | 7 | <.5 |
| JUNE, 1974 | | | | | |
| 12... | 1000 | 1 | 20 | 6 | 2.0 |
| 01346000 - WEST CANADA CREEK AT KAST BRIDGE NY (LAT 43 04 25 LONG 074 59 24) | | | | | |
| JUNE, 1974 | | | | | |
| 12... | 1300 | <1 | 0 | 4 | <.5 |
| 01357995 - HUDSON RIVER AT TROY NY (LAT 42 45 05 LONG 073 41 10) | | | | | |
| JUNE, 1974 | | | | | |
| 06... | 0900 | <1 | 10 | 0 | <.5 |
| SEP. | | | | | |
| 05... | 1000 | 1 | 10 | 4 | 5.5 |
| 01502632 - SUSQUEHANNA RIVER AT BAINBRIDGE NY (LAT 42 17 29 LONG 075 28 36) | | | | | |
| OCT., 1973 | | | | | |
| 29... | 0700 | 1 | 10 | 3 | <.5 |
| JUNE, 1974 | | | | | |
| 11... | 0900 | 1 | 10 | 2 | <.5 |
| 01505000 - CHENANGO RIVER AT SHERBURNE NY (LAT 42 40 43 LONG 075 30 39) | | | | | |
| MAY , 1974 | | | | | |
| 14... | 1200 | 2 | 10 | 10 | .9 |
| SEP. | | | | | |
| 04... | 1200 | 1 | 10 | 5 | .8 |
| 01505500 - CHENANGO RIVER AT NORWICH NY (LAT 42 28 21 LONG 075 32 44) | | | | | |
| MAY , 1974 | | | | | |
| 14... | 1100 | 0 | 10 | 7 | .5 |
| SEP. | | | | | |
| 04... | 1100 | 1 | 10 | 7 | 20 |
| 01509030 - TIOUGHNIOGA RIVER AT BLODGETT MILLS NY (LAT 42 34 05 LONG 076 07 18) | | | | | |
| MAY , 1974 | | | | | |
| 14... | 1300 | <1 | 10 | 6 | .5 |
| SEP. | | | | | |
| 04... | 1300 | 1 | 0 | 7 | <.5 |
| 01513500 - SUSQUEHANNA R AT JOHNSON CITY NY (LAT 42 05 30 LONG 076 03 25) | | | | | |
| OCT., 1973 | | | | | |
| 29... | 0900 | 2 | 10 | 3 | <.5 |
| JUNE, 1974 | | | | | |
| 10... | 0900 | 1 | 10 | 10 | <.5 |
| 01513831 - SUSQUEHANNA RIVER AT OWEGO NY (LAT 42 06 01 LONG 076 15 39) | | | | | |
| OCT., 1973 | | | | | |
| 29... | 1000 | 2 | 20 | 7 | <.5 |
| JUNE, 1974 | | | | | |
| 10... | 1000 | 0 | 10 | 4 | <.5 |

## MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| 01514937 - SUSQUEHANNA RIVER AT SMITHBORO NY (LAT 42 01 41 LONG 076 23 07) | | | | | |
| OCT., 1973 | | | | | |
| 29... | 1100 | 1 | 10 | 5 | <.5 |
| JUNE, 1974 | | | | | |
| 10... | 1100 | <1 | 10 | 0 | <.5 |
| 01524525 - CANISTEO RIVER BELOW HORNELL NY (LAT 42 17 58 LONG 077 39 03) | | | | | |
| OCT., 1973 | | | | | |
| 14... | -- | 1 | 10 | 19 | <.5 |
| APR., 1974 | | | | | |
| 22... | 1425 | 1 | 0 | 2 | <.5 |
| AUG. | | | | | |
| 12... | 1535 | 1 | 10 | 2 | <.5 |
| 01529552 - COHOCTON RIVER AT CAMPBELL NY (LAT 42 13 37 LONG 077 11 56) | | | | | |
| OCT., 1973 | | | | | |
| 14... | 1015 | 2 | 0 | 2 | <.5 |
| APR., 1974 | | | | | |
| 22... | 1200 | 1 | 0 | 2 | <.5 |
| AUG. | | | | | |
| 12... | 1315 | 2 | 10 | 1 | <.5 |
| 01529950 - CHEMUNG AT CORNING NY (LAT 42 08 52 LONG 077 03 40) | | | | | |
| OCT., 1973 | | | | | |
| 14... | 1040 | 2 | 10 | 18 | <.5 |
| APR., 1974 | | | | | |
| 22... | 1225 | 1 | 0 | 2 | <.5 |
| MAY | | | | | |
| 20... | 1035 | 1 | 10 | 2 | <.5 |
| JULY | | | | | |
| 15... | 0900 | 0 | 10 | 0 | <.5 |
| 01530310 - CHEMUNG RIVER AT FITCH BRIDGE NY (LAT 42 04 57 LONG 076 52 01) | | | | | |
| JUNE, 1974 | | | | | |
| 10... | 1300 | 2 | 10 | 4 | <.5 |
| 01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06) | | | | | |
| OCT., 1973 | | | | | |
| 29... | 1200 | 1 | 10 | 6 | <.5 |
| JUNE, 1974 | | | | | |
| 10... | 1200 | 1 | 10 | 6 | <.5 |
| 03010844 - ALLEGHENY RIVER AT ALLEGANY NY (LAT 42 05 26 LONG 078 30 09) | | | | | |
| JULY, 1974 | | | | | |
| 29... | 1610 | 1 | 10 | 47 | .6 |
| SEP. | | | | | |
| 25... | 1520 | 0 | 0 | 6 | 2.7 |
| 03010870 - ALLEGHENY RIVER AT VANDALIA NY (LAT 42 05 38 LONG 078 34 27) | | | | | |
| JULY, 1974 | | | | | |
| 29... | 1550 | 2 | 10 | 86 | <.5 |
| SEP. | | | | | |
| 25... | 1455 | 1 | 0 | 4 | <.5 |
| 03010958 - TUNUNGWANT CREEK AT TUNA CREEK NY (LAT 41 58 37 LONG 078 37 30) | | | | | |
| OCT., 1973 | | | | | |
| 15... | 1230 | 1 | 20 | 6 | <.5 |
| JULY, 1974 | | | | | |
| 01... | 1335 | 6 | 30 | 22 | <.5 |
| AUG. | | | | | |
| 28... | 1235 | 2 | 0 | 2 | 6.0 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

## MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| 03011020 - ALLEGHENY RIVER AT SALAMANCA NY (LAT 42 09 23 LONG 078 42 56) | | | | | |
| SEP., 1974 | | | | | |
| 25... | 1325 | 1 | 10 | 6 | <.5 |
| 03014500 - CHADAKOIN RIVER AT FALCONER NY (LAT 42 06 45 LONG 079 14 15) | | | | | |
| JULY, 1974 | | | | | |
| 01... | 1020 | 10 | 10 | 10 | <.5 |
| AUG. | | | | | |
| 28... | 1015 | 6 | 50 | 33 | 1.9 |
| 03014590 - CASSADAGA CREEK NEAR JAMESTOWN NY (LAT 42 05 48 LONG 079 09 25) | | | | | |
| JULY, 1974 | | | | | |
| 01... | 1050 | 7 | 40 | 31 | <.5 |
| AUG. | | | | | |
| 28... | 1035 | 8 | 60 | 21 | 2.4 |
| 03014600 - CONEWANGO CREEK AT FREWSBURG NY (LAT 42 04 11 LONG 079 09 30) | | | | | |
| OCT., 1973 | | | | | |
| 15... | 1050 | 4 | 40 | 12 | .5 |
| JULY, 1974 | | | | | |
| 29... | 1110 | 6 | 20 | 31 | <.5 |
| SEP. | | | | | |
| 25... | 1145 | 3 | 20 | 67 | <.5 |
| 03014670 - CONEWANGO CREEK AT FENTONVILLE NY (LAT 42 01 23 LONG 079 09 36) | | | | | |
| OCT., 1973 | | | | | |
| 15... | 1120 | 3 | 20 | 7 | <.5 |
| JULY, 1974 | | | | | |
| 29... | 1150 | 5 | 20 | 10 | .8 |
| SEP. | | | | | |
| 25... | 1205 | 2 | 20 | 19 | <.5 |
| 04213378 - CANADAWAY CREEK AT DUNKIRK NY (LAT 42 28 32 LONG 079 21 56) | | | | | |
| DEC., 1973 | | | | | |
| 10... | 1150 | 1 | 10 | 3 | <.5 |
| JULY, 1974 | | | | | |
| 02... | 1105 | 4 | 0 | 6 | <.5 |
| 04213450 - BUTTERMILK CREEK NEAR SPRINGVILLE NY (LAT 42 28 50 LONG 078 40 32) | | | | | |
| NOV., 1973 | | | | | |
| 12... | 1410 | <1 | 10 | 8 | <.5 |
| JULY, 1974 | | | | | |
| 02... | 1305 | 0 | 0 | 3 | 9.3 |
| 04213500 - CATTARAUGUS CREEK AT GOWANDA NY (LAT 42 28 05 LONG 078 56 30) | | | | | |
| NOV., 1973 | | | | | |
| 12... | 1300 | 1 | 10 | 13 | .5 |
| JULY, 1974 | | | | | |
| 02... | 1215 | 3 | 0 | 7 | <.5 |
| 04214020 - CATTARAUGUS CREEK AT IRVING NY (LAT 42 34 12 LONG 079 06 45) | | | | | |
| DEC., 1973 | | | | | |
| 10... | 1110 | 1 | 10 | 7 | <.5 |
| JUNE, 1974 | | | | | |
| 04... | 1045 | <1 | 0 | 4 | <.5 |
| 04214240 - EIGHTEENMILE C AT HIGHLAND-ON-THE-LAKE NY (LAT 42 42 44 LONG 078 58 00) | | | | | |
| DEC., 1973 | | | | | |
| 10... | 1010 | <1 | 10 | 12 | <.5 |
| JUNE, 1974 | | | | | |
| 04... | 0930 | 1 | 10 | 3 | .9 |

## MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| **04215790 - BUFFALO RIVER AT OHIO STREET AT BUFFALO NY (LAT 42 51 42 LONG 078 52 04)** | | | | | |
| OCT., 1973 | | | | | |
| 16... | 1500 | 3 | 0 | 0 | <.5 |
| JUNE, 1974 | | | | | |
| 03... | 1055 | 2 | 10 | 6 | 1.2 |
| **04216060 - NIAGARA RIVER AT BIRD ISLAND AT BUFFALO NY (LAT 42 54 53 LONG 078 54 12)** | | | | | |
| MAY , 1974 | | | | | |
| 07... | 1345 | 6 | 10 | 6 | <.5 |
| AUG. | | | | | |
| 26... | 1820 | 1 | 0 | 1 | <.5 |
| **04216080 - BLACK ROCK CANAL AT BUFFALO NY (LAT 42 54 54 LONG 078 54 10)** | | | | | |
| OCT., 1973 | | | | | |
| 16... | 1400 | 1 | 10 | 2 | 2.3 |
| JUNE, 1974 | | | | | |
| 03... | 1330 | 0 | 10 | 5 | <.5 |
| **04216225 - NIAGARA RIVER AT WATER INTAKE TONAWANDA NY (LAT 42 57 02 LONG 078 55 15)** | | | | | |
| MAY , 1974 | | | | | |
| 07... | 1150 | <1 | 30 | 3 | 6.8 |
| AUG. | | | | | |
| 26... | 1115 | 2 | 20 | 1 | <.5 |
| **04216230 - NIAGARA RIVER AT WATER PLANT TONAWANDA NY (LAT 42 57 50 LONG 078 55 30)** | | | | | |
| MAY , 1974 | | | | | |
| 07... | 1205 | 2 | 20 | 5 | <.5 |
| AUG. | | | | | |
| 26... | 1155 | 1 | 10 | 1 | <.5 |
| **04218595 - ERIE(BARGE)CANAL NEAR PENDLETON NY (LAT 43 06 57 LONG 078 44 13)** | | | | | |
| OCT., 1973 | | | | | |
| 16... | 0935 | 1 | 10 | 0 | <.5 |
| JUNE, 1974 | | | | | |
| 03... | 0955 | 1 | 10 | 5 | <.5 |
| **04218705 - ERIE(BARGE)CANAL AT ST HWY 383 AT ROCHESTER NY (LAT 43 07 23 LONG 077 38 45)** | | | | | |
| JUNE, 1974 | | | | | |
| 26... | 1128 | 2 | 10 | 7 | 4.4 |
| **04218760 - ERIE(BARGE)CANAL AT WEST BRIGHTON NY (LAT 43 06 38 LONG 077 36 58)** | | | | | |
| JUNE, 1974 | | | | | |
| 26... | 1340 | 2 | 10 | 5 | 2.1 |
| **04219355 - NIAGARA R(TONAWANDA CHANNEL) AT NIAGARA FALLS NY (LAT 43 04 28 LONG 079 00 19)** | | | | | |
| MAY , 1974 | | | | | |
| 07... | 1120 | 3 | 10 | 5 | <.5 |
| AUG. | | | | | |
| 26... | 1045 | <1 | 10 | 3 | <.5 |
| **04220284 - L ONTARIO AT MONROE CO WA PLANT AT ROCHESTER NY (LAT 43 16 45 LONG 077 37 01)** | | | | | |
| DEC., 1973 | | | | | |
| 10... | -- | 0 | 30 | 3 | <.5 |
| JUNE, 1974 | | | | | |
| 05... | 1125 | 2 | 40 | 1 | <.5 |
| SEP. | | | | | |
| 19... | 1300 | 2 | 190 | 6 | 4.9 |
| **04227000 - CANASERAGA CREEK AT SHAKERS CROSSING NY (LAT 42 44 15 LONG 077 50 30)** | | | | | |
| MAY , 1974 | | | | | |
| 20... | 1415 | 2 | 20 | 3 | <.5 |
| JULY | | | | | |
| 15... | 0900 | 3 | 10 | 2 | <.5 |

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| 04227510 - GENESEE RIVER AT GENESEO NY (LAT 42 46 37 LONG 077 50 31) | | | | | |
| MAY , 1974 | | | | | |
| 20... | 1435 | 8 | 20 | 6 | <.5 |
| JULY | | | | | |
| 15... | 0915 | 0 | 10 | 2 | <.5 |
| 04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27) | | | | | |
| MAY , 1974 | | | | | |
| 20... | 1505 | 9 | 30 | 9 | <.5 |
| JULY | | | | | |
| 15... | 1030 | 0 | 10 | 2 | <.5 |
| 04230055 - HONEOYE CREEK AT WEST RUSH NY (LAT 42 58 40 LONG 077 41 52) | | | | | |
| JUNE, 1974 | | | | | |
| 24... | 1424 | 2 | 10 | 1300 | 2.0 |
| 04230650 - GENESEE R AT BALLANTYNE BRIDGE NEAR MORTIMER NY (LAT 43 05 31 LONG 077 40 52) | | | | | |
| DEC., 1973 | | | | | |
| 10... | -- | 0 | 10 | 6 | <.5 |
| JUNE, 1974 | | | | | |
| 26... | 1358 | 2 | 10 | 3 | <.5 |
| 04231500 - GENESEE RIVER(STATE HIGHWAY 47)AT ROCHESTER NY (LAT 43 07 28 LONG 077 37 56) | | | | | |
| DEC., 1973 | | | | | |
| 10... | -- | 2 | 10 | 7 | <.5 |
| JUNE, 1974 | | | | | |
| 05... | 1323 | 0 | 10 | 1 | <.5 |
| SEP. | | | | | |
| 19... | 1200 | 2 | 0 | 5 | 4.5 |
| 04232158 - LAKE ONTARIO NEAR OSWEGO NY (LAT 43 28 17 LONG 076 32 59) | | | | | |
| SEP., 1974 | | | | | |
| 18... | 1225 | 1 | 0 | 2 | <.5 |
| 0423249907-SENECA LAKE AT SALT POINT NY (LAT 42 24 25 LONG 076 53 10) | | | | | |
| OCT., 1973 | | | | | |
| 29... | 1400 | 2 | 40 | 1 | <.5 |
| JUNE, 1974 | | | | | |
| 10... | 1400 | 1 | 10 | 1 | <.5 |
| 0423249988-SENECA L(GENEVA WTR PLT)NR GENEVA NY (LAT 42 48 52 LONG 076 57 24) | | | | | |
| OCT., 1973 | | | | | |
| 25... | 1100 | 1 | 10 | 6 | <.5 |
| JUNE, 1974 | | | | | |
| 19... | 0940 | 2 | 10 | 1 | <.5 |
| 04232651 - SENECA RIVER AT WATERLOO NY (LAT 42 54 05 LONG 076 51 46) | | | | | |
| JULY, 1974 | | | | | |
| 17... | 0745 | 1 | 10 | 3 | <.5 |
| SEP. | | | | | |
| 12... | 0925 | 1 | 0 | 4 | <.5 |
| 04232707 - SENECA RIVER AT SENECA FALLS NY (LAT 42 54 10 LONG 076 49 34) | | | | | |
| JULY, 1974 | | | | | |
| 17... | 0820 | 2 | 20 | 2 | <.5 |
| SEP. | | | | | |
| 12... | 0950 | 1 | 10 | 2 | .8 |
| 04232723 - SENECA RIVER(VAN CLEEF LAKE) AT SENECA FALLS NY (LAT 42 54 54 LONG 076 47 14) | | | | | |
| JULY, 1974 | | | | | |
| 17... | 0850 | <1 | 10 | 3 | <.5 |
| SEP. | | | | | |
| 12... | 1035 | 1 | 10 | 2 | <.5 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES—Continued

## MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| 04232730 - SENECA RIVER NEAR SENECA FALLS NY (LAT 42 56 20 LONG 076 45 42) | | | | | |
| JULY, 1974 | | | | | |
| 17... | 0920 | 0 | 10 | 3 | 2.5 |
| SEP. | | | | | |
| 12... | 1110 | 1 | 10 | 2 | <.5 |
| 0423406011-CAYUGA LAKE AT MYERS NY (LAT 42 32 05 LONG 076 32 56) | | | | | |
| MAY , 1974 | | | | | |
| 13... | 1400 | 2 | 10 | 5 | <.5 |
| SEP. | | | | | |
| 03... | 1400 | 1 | 10 | 4 | <.5 |
| 0423406084-CAYUGA LAKE NEAR CAYUGA NY (LAT 42 50 49 LONG 076 43 43) | | | | | |
| OCT., 1973 | | | | | |
| 25... | 1200 | 3 | 10 | 4 | <.5 |
| JUNE, 1974 | | | | | |
| 19... | 1100 | 1 | 0 | 1 | <.5 |
| 042340613-SENECA RIVER AT FREE BRIDGE CORNERS NY (LAT 42 57 46 LONG 076 44 17) | | | | | |
| JULY, 1974 | | | | | |
| 17... | 0950 | <1 | 10 | 2 | <.5 |
| SEP. | | | | | |
| 12... | 1220 | 1 | 10 | 2 | 1.3 |
| 0423454444-CANANDAIGUA LAKE NEAR CANANDAIGUA NY (LAT 42 50 32 LONG 077 16 42) | | | | | |
| OCT., 1973 | | | | | |
| 14... | -- | <1 | -- | -- | -- |
| JUNE, 1974 | | | | | |
| 17... | 1530 | 1 | 20 | 5 | <.5 |
| AUG. | | | | | |
| 12... | 1145 | 1 | 10 | 2 | <.5 |
| 04235396 - OWASCO LAKE NEAR AUBURN NY (LAT 42 53 56 LONG 076 32 17) | | | | | |
| OCT., 1973 | | | | | |
| 25... | 1400 | 1 | 10 | 5 | <.5 |
| JUNE, 1974 | | | | | |
| 19... | 1240 | 1 | 10 | 0 | <.5 |
| 04235730 - SENECA RIVER NEAR WEEDSPORT NY (LAT 43 04 14 LONG 076 33 25) | | | | | |
| JULY, 1974 | | | | | |
| 17... | 1045 | 0 | 10 | 4 | 1.6 |
| SEP. | | | | | |
| 12... | 1345 | 3 | 10 | 5 | <.5 |
| 04240300 - NINEMILE CREEK AT LAKELAND NY (LAT 43 04 58 LONG 076 13 36) | | | | | |
| MAY , 1974 | | | | | |
| 29... | 1500 | 2 | 20 | 5 | .5 |
| 04240500 - ONONDAGA LAKE OUTLET AT LONG BRANCH NY (LAT 43 07 01 LONG 076 14 44) | | | | | |
| MAY , 1974 | | | | | |
| 29... | 1500 | 4 | 10 | 2 | <.5 |
| 04240540 - SENECA RIVER AT BELGIUM NY (LAT 43 10 15 LONG 076 16 08) | | | | | |
| JUNE, 1974 | | | | | |
| 26... | 1035 | 2 | 0 | 1 | <.5 |
| SEP. | | | | | |
| 18... | 1010 | <1 | 10 | 4 | <.5 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

## MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE | TIME | TOTAL ARSENIC (AS) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) |
|---|---|---|---|---|---|
| 04242730 - FISH CREEK AT FISH CREEK LANDING NY (LAT 43 13 16 LONG 075 42 06) | | | | | |
| OCT., 1973 | | | | | |
| 10... | 1100 | 0 | 10 | 1 | <.5 |
| JUNE, 1974 | | | | | |
| 12... | 1600 | 1 | 10 | 1 | <.5 |
| 04243535 - ONEIDA CREEK AT SOUTH BAY NY (LAT 43 09 51 LONG 075 44 14) | | | | | |
| OCT., 1973 | | | | | |
| 10... | 1200 | 1 | 10 | 2 | <.5 |
| JUNE, 1974 | | | | | |
| 12... | 1400 | 2 | 20 | 4 | <.5 |
| 04245500 - CHITTENANGO CREEK AT BRIDGEPORT NY (LAT 43 09 18 LONG 075 58 18) | | | | | |
| MAY , 1974 | | | | | |
| 29... | 0900 | 0 | 10 | 4 | <.5 |
| 04246000 - ONEIDA LAKE AT BREWERTON NY (LAT 43 14 24 LONG 076 08 30) | | | | | |
| JUNE, 1974 | | | | | |
| 26... | 1445 | 6 | 0 | 0 | <.5 |
| SEP. | | | | | |
| 18... | 1420 | <1 | 0 | 3 | <.5 |
| 04247000 - OSWEGO RIVER AT MINNANSVILLE NY (LAT 43 14 54 LONG 076 21 06) | | | | | |
| JUNE, 1974 | | | | | |
| 26... | 1100 | 2 | 10 | 2 | <.5 |
| SEP. | | | | | |
| 18... | 1035 | 2 | 10 | 2 | .6 |

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LONG ISLAND

NASSAU COUNTY

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 404437073402301 | N 17 | 74-06-03 | 13 | 60 | 10 | 14 | 8.5 | 17 | 2.0 |
| 404735073424201 | N 24 | 74-06-06 | 9.3 | 50 | 10 | 7.8 | 4.4 | 4.3 | 1.1 |
| 404901073443001 | N 30 | 74-05-17 | 18 | 90 | 60 | 120 | 70 | 230 | 5.0 |
| 405132073414101 | N 38 | 74-07-10 | 14 | 170 | 80 | 15 | 4.2 | 19 | 2.1 |
| 404448073381201 | N 97 | 74-05-30 | 11 | 10 | 20 | 3.5 | 1.9 | 6.0 | .9 |
| 404557073382801 | N 104 | 74-06-11 | 14 | 50 | 10 | 6.1 | 3.0 | 6.0 | .9 |
| 404622073342001 | N 152 | 74-05-30 | 12 | 140 | 20 | 2.4 | .9 | 4.3 | .6 |
| 404743073444401 | N 687 | 74-05-31 | 11 | 40 | 20 | 10 | 5.3 | 5.2 | 1.3 |
| 404902073353901 | N 1175 | 74-09-18 | 15 | 2900 | 70 | 18 | 7.2 | 8.0 | 1.0 |
| 404137073340701 | N 1183 | 74-09-19 | 14 | 210 | 800 | 26 | 4.2 | 34 | 6.5 |
| 404713073410501 | N 1328 | 74-06-05 | 7.7 | 40 | 90 | 2.3 | 1.3 | 5.0 | .7 |
| 404631073421501 | N 1618 | 74-06-06 | 7.9 | 140 | 20 | 2.6 | 1.3 | 3.3 | .7 |
| 404532073420901 | N 1802 | 74-06-06 | 16 | 20 | 10 | 7.4 | 4.9 | 6.9 | 1.2 |
| 404810073391201 | N 1875 | 74-06-12 | 9.7 | 290 | 10 | 2.1 | 1.0 | 4.2 | .7 |
| 404938073385001 | N 2001 | 74-06-18 | 7.2 | 1300 | 210 | 16 | 9.5 | 39 | 1.0 |
| 404731073400701 | N 2028 | 74-06-14 | 20 | 40 | 0 | 16 | 8.8 | 7.0 | 1.4 |
| 404907073410901 | N 2030 | 74-05-28 | 22 | 70 | 70 | 23 | 8.7 | 17 | 5.2 |
| 404829073395301 | N 2052 | 74-05-28 | 12 | 80 | 30 | 13 | 4.8 | 7.3 | 1.1 |
| 404648073421507 | N 2169 | 74-07-15 | 19 | 0 | 0 | 11 | 5.0 | 13 | 1.5 |
| 404826073450401 | N 2214 | 74-08-16 | 22 | 20 | 40 | 41 | 19 | 75 | 3.6 |
| 404708073383601 | N 2400 | 74-06-12 | 8.8 | 20 | 20 | 4.1 | 1.4 | 9.1 | .7 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-06-03 | 24 | 20 | 32 | 20 | 1.3 | -- | 4.9 | .00 | .01 | .00 | .01 | .01 |
| 74-06-06 | 43 | 35 | 3.5 | 4.5 | .1 | .66 | .59 | .00 | -- | .00 | .00 | .00 |
| 74-05-17 | 50 | 41 | 74 | 740 | .1 | .16 | .09 | .01 | .01 | .09 | .23 | .32 |
| 74-07-10 | 102 | 84 | 4.2 | 3.8 | .3 | .00 | .02 | .00 | .00 | .08 | .01 | .09 |
| 74-05-30 | 8 | 7 | 5.2 | 6.3 | .3 | 2.3 | 2.3 | .00 | .01 | .00 | .00 | .00 |
| 74-06-11 | 11 | 9 | 12 | 6.9 | .1 | 1.4 | 1.5 | .01 | .01 | .01 | -- | .00 |
| 74-05-30 | 11 | 9 | .6 | 5.2 | .1 | 1.0 | 1.1 | .00 | -- | .00 | .02 | .02 |
| 74-05-31 | 57 | 47 | 3.7 | 5.6 | .1 | .42 | .39 | .00 | -- | .00 | .02 | .02 |
| 74-09-18 | 11 | 9 | 34 | 11 | .2 | 10 | 8.0 | .01 | .00 | .03 | .03 | .06 |
| 74-09-19 | 24 | 20 | 45 | 36 | .2 | 14 | 14 | .01 | .00 | 1.1 | .90 | 2.0 |
| 74-06-05 | 14 | 11 | 2.0 | 3.6 | .0 | .09 | .08 | .01 | .01 | .00 | .00 | .00 |
| 74-06-06 | 11 | 9 | 4.0 | 3.5 | .0 | .03 | .06 | .00 | .00 | .00 | .00 | .00 |
| 74-06-06 | 40 | 33 | 5.7 | 9.3 | .1 | 2.9 | 2.1 | .01 | .01 | .00 | .00 | .00 |
| 74-06-12 | 9 | 7 | .0 | 4.2 | .1 | .78 | 1.1 | .00 | -- | .01 | .00 | .00 |
| 74-06-18 | 19 | 16 | 11 | 88 | .1 | .07 | -- | .00 | -- | -- | -- | .00 |
| 74-06-14 | 66 | 54 | 10 | 9.5 | .2 | 2.9 | 2.6 | .01 | .01 | .01 | .01 | .02 |
| 74-05-28 | 48 | 39 | 61 | 14 | .2 | 4.0 | 4.0 | .00 | .00 | .01 | .16 | .17 |
| 74-05-28 | 39 | 32 | 8.0 | 9.9 | .1 | 4.2 | 4.2 | .00 | .00 | .00 | .03 | .03 |
| 74-07-15 | 45 | 37 | 7.8 | 8.1 | .2 | 1.2 | 1.2 | .01 | .01 | .00 | .02 | .02 |
| 74-08-16 | 104 | 85 | 47 | 160 | .1 | 3.2 | 2.8 | .00 | .00 | .03 | .09 | .12 |
| 74-06-12 | 6 | 5 | 2.0 | 6.0 | .1 | 2.8 | 2.8 | .01 | .01 | .01 | .19 | .20 |

| DATE OF SAMPLE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 74-06-03 | 7.4 | -- | 141 | 70 | 50 | 270 | 6.3 | 15.0 | .1 |
| 74-06-06 | .66 | -- | 59 | 38 | 2 | 110 | 6.6 | 17.0 | .0 |
| 74-05-17 | .49 | .01 | 1280 | 590 | 550 | 1650 | 6.5 | 12.0 | -- |
| 74-07-10 | .09 | .11 | 113 | 55 | 0 | 190 | 6.9 | 15.0 | .0 |
| 74-05-30 | 2.3 | -- | 49 | 17 | 10 | 80 | 6.5 | 13.0 | .0 |
| 74-06-11 | 1.4 | -- | 61 | 28 | 19 | 105 | 6.2 | 15.0 | .0 |
| 74-05-30 | 1.0 | -- | 36 | 10 | 1 | 57 | 6.3 | 12.0 | .0 |
| 74-05-31 | .44 | -- | 72 | 47 | 0 | 130 | 6.4 | 13.0 | .0 |
| 74-09-18 | 10 | .01 | 494 | 75 | 66 | 205 | 6.1 | 12.0 | .1 |
| 74-09-19 | 16 | .00 | 240 | 82 | 62 | 100 | 5.2 | 18.0 | .2 |
| 74-06-05 | .10 | -- | 30 | 11 | 0 | 48 | 6.5 | 15.0 | .0 |
| 74-06-06 | .03 | -- | 29 | 12 | 3 | 48 | 5.9 | 16.0 | .0 |
| 74-06-06 | 2.9 | -- | 81 | 39 | 6 | 130 | 6.2 | 15.0 | .1 |
| 74-06-12 | .78 | -- | 31 | 9 | 2 | 50 | 6.5 | 13.0 | .0 |
| 74-06-18 | .07 | .03 | 182 | 79 | 63 | 370 | 6.5 | 15.0 | .0 |
| 74-06-14 | 2.9 | -- | 117 | 76 | 22 | 210 | 6.9 | 13.0 | .0 |
| 74-05-28 | 4.2 | -- | 192 | 93 | 54 | 315 | 5.5 | 12.0 | .1 |
| 74-05-28 | 4.2 | -- | 94 | 52 | 20 | 140 | 6.1 | 12.0 | .1 |
| 74-07-15 | 1.2 | .01 | 93 | 48 | 11 | 140 | 6.8 | 14.0 | .0 |
| 74-08-16 | 3.3 | .03 | 431 | 180 | 95 | 875 | 6.3 | 14.0 | .1 |
| 74-06-12 | 3.0 | -- | 48 | 16 | 11 | 70 | 5.9 | 13.0 | .0 |

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LONG ISLAND--Continued

NASSAU COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 404446073365001 | N 2747 | 74-05-29 | 10 | 30 | 20 | 24 | 11 | 14 | 1.6 |
| 404804073411301 | N 3523 | 74-06-05 | 19 | 0 | 0 | 13 | 8.2 | 8.7 | 1.6 |
| 404502073402401 | N 3673 | 74-06-03 | 12 | 80 | 10 | 20 | 12 | 16 | 1.7 |
| 403751073440201 | N 3861 | 74-07-25 | .1 | 25000 | 510 | 210 | 630 | 9000 | 320 |
| 404544073415101 | N 3905 | 74-06-06 | 21 | 70 | 0 | 13 | 8.6 | 8.8 | 1.8 |
| 405044073405501 | N 3912 | 74-07-01 | 12 | 80 | 10 | 23 | 10 | 9.9 | 1.6 |
| 403751073440202 | N 3932 | 74-07-25 | 11 | 3400 | 90 | 2.2 | 1.0 | 6.9 | 1.3 |
| 404525073373201 | N 4082 | 74-05-30 | 9.1 | 0 | 20 | 2.2 | 1.2 | 4.8 | 1.1 |
| 404855073404701 | N 4223 | 74-05-28 | 20 | 170 | 30 | 13 | 6.5 | 8.5 | 1.3 |
| 405010073414201 | N 4859 | 74-05-28 | 20 | 600 | 370 | 9.8 | 4.6 | 13 | 1.8 |
| 404647073423501 | N 5099 | 74-06-05 | 16 | 50 | 10 | 8.3 | 5.5 | 5.5 | 1.2 |
| 404451073352601 | N 5654 | 74-05-31 | 8.9 | 70 | 30 | 7.7 | 3.2 | 12 | 2.2 |
| 404824073380601 | N 5708 | 74-07-30 | 17 | 50 | 40 | 25 | 8.0 | 13 | 1.6 |
| 404559073414901 | N 5710 | 74-06-05 | 19 | 130 | 10 | 14 | 8.7 | 6.8 | 1.5 |
| 404645073390501 | N 5947 | 74-05-30 | 13 | 0 | 20 | 8.9 | 5.4 | 9.6 | 1.1 |
| 404711073445502 | N 6003 | 74-07-22 | 16 | 80 | 0 | 18 | 10 | 7.9 | 2.1 |
| 404511073412801 | N 6073 | 74-07-19 | 15 | 370 | 10 | 15 | 7.4 | 7.4 | 1.0 |
| 404900073375401 | N 6333 | 74-06-18 | 16 | 190 | 40 | 22 | 11 | 19 | 1.7 |
| 405006073450401 | N 6717 | 74-07-01 | 18 | 720 | 370 | 35 | 23 | 110 | 5.3 |
| 404802073434201 | N 7007 | 74-07-22 | 23 | 700 | 0 | 17 | 9.8 | 10 | 1.6 |
| 404625073405701 | N 7053 | 74-07-31 | 18 | 40 | 20 | 13 | 6.8 | 8.0 | 1.6 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-05-29 | 3 | 2 | 60 | 20 | .1 | 13 | 10 | .00 | .01 | .00 | .04 | .04 |
| 74-06-05 | 44 | 36 | 16 | 10 | .2 | 6.0 | 4.4 | .00 | -- | .00 | .00 | .00 |
| 74-06-03 | 23 | 19 | 43 | 18 | .1 | 13 | 11 | .00 | .01 | .00 | .00 | .00 |
| 74-07-25 | 12 | 10 | 530 | 16000 | .3 | .01 | .01 | .01 | .01 | .09 | .24 | .33 |
| 74-06-06 | 48 | 39 | 18 | 15 | .0 | 2.6 | 1.2 | .00 | .01 | .00 | .00 | .00 |
| 74-07-01 | 16 | 13 | 36 | 18 | .1 | 10 | 10 | .00 | .01 | .02 | .30 | .32 |
| 74-07-25 | 9 | 7 | 4.0 | 13 | .1 | .00 | .00 | .01 | .01 | .01 | .05 | .06 |
| 74-05-30 | 7 | 6 | .9 | 5.3 | .1 | 1.6 | 1.5 | .00 | .01 | .00 | .00 | .00 |
| 74-05-28 | 37 | 30 | 17 | 9.5 | .2 | 3.8 | 3.7 | .00 | .00 | .00 | .08 | .08 |
| 74-05-28 | 75 | 62 | 5.1 | 4.8 | .2 | .00 | -- | .00 | .00 | .01 | .13 | .14 |
| 74-06-05 | 42 | 34 | 6.5 | 6.1 | .1 | 1.9 | 1.7 | .01 | .00 | .00 | .00 | .00 |
| 74-05-31 | 5 | 4 | 4.1 | 16 | .1 | 8.2 | 8.1 | .00 | .01 | .06 | .00 | .06 |
| 74-07-30 | 36 | 30 | 30 | 17 | .1 | 7.1 | 6.6 | .01 | .01 | -- | -- | .01 |
| 74-06-05 | 72 | 59 | 16 | 8.0 | .2 | 2.5 | 1.8 | .00 | .01 | .00 | .00 | .00 |
| 74-05-30 | 22 | 18 | 12 | 12 | .4 | 5.4 | 4.8 | .00 | -- | .00 | .00 | .00 |
| 74-07-22 | 51 | 42 | 27 | 9.9 | .3 | 4.7 | 5.1 | .01 | .01 | -- | -- | .00 |
| 74-07-19 | 40 | 33 | 19 | 16 | .0 | 2.7 | 2.8 | .01 | .01 | .07 | .00 | .03 |
| 74-06-18 | 29 | 24 | 45 | 32 | .1 | 7.1 | 6.3 | .01 | .01 | .13 | .00 | .08 |
| 74-07-01 | 121 | 99 | 33 | 200 | .2 | .00 | -- | .00 | -- | .05 | .03 | .08 |
| 74-07-22 | 33 | 27 | 46 | 11 | .2 | 4.0 | 3.3 | .01 | .01 | -- | -- | .00 |
| 74-07-31 | 40 | 33 | 26 | 8.6 | .2 | 1.4 | 1.5 | .01 | .01 | .00 | .07 | .07 |

| DATE OF SAMPLE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 74-05-29 | 13 | -- | 186 | 110 | 100 | 350 | 5.7 | 13.0 | .0 |
| 74-06-05 | 6.0 | -- | 118 | 66 | 30 | 200 | 6.9 | 13.0 | .1 |
| 74-06-03 | 13 | -- | 183 | 99 | 80 | 340 | 6.1 | 14.0 | .2 |
| 74-07-25 | .35 | .05 | 26700 | 3100 | 3100 | 40400 | 8.2 | 14.0 | .1 |
| 74-06-06 | 2.6 | -- | 115 | 68 | 29 | 205 | 6.3 | 14.0 | .0 |
| 74-07-01 | 10 | .01 | 163 | 99 | 85 | 270 | 5.7 | 14.0 | .0 |
| 74-07-25 | .06 | .04 | 44 | 10 | 2 | 250 | 6.1 | 14.0 | .0 |
| 74-05-30 | 1.6 | -- | 35 | 10 | 5 | 55 | 6.7 | 13.0 | .0 |
| 74-05-28 | 3.9 | -- | 111 | 59 | 29 | 175 | 6.4 | 12.0 | .0 |
| 74-05-28 | .14 | -- | 96 | 43 | 0 | 155 | 6.4 | 13.0 | .0 |
| 74-06-05 | 1.9 | -- | 77 | 43 | 9 | 130 | 6.8 | 13.0 | .1 |
| 74-05-31 | 8.3 | -- | 93 | 32 | 28 | 160 | 5.3 | 13.0 | .1 |
| 74-07-30 | 7.1 | .01 | 159 | 95 | 66 | 310 | 6.0 | 15.0 | .1 |
| 74-06-05 | 2.5 | -- | 118 | 71 | 12 | 190 | 6.9 | 14.0 | .0 |
| 74-05-30 | 5.4 | -- | 95 | 44 | 26 | 150 | 6.0 | 14.0 | .1 |
| 74-07-22 | 4.7 | .01 | 139 | 86 | 44 | 225 | 6.2 | 13.0 | .1 |
| 74-07-19 | 2.7 | .02 | 113 | 68 | 35 | 380 | 6.0 | 16.0 | .0 |
| 74-06-18 | 7.2 | .01 | 189 | 100 | 76 | 350 | 5.9 | 16.0 | .0 |
| 74-07-01 | .08 | .11 | 484 | 180 | 83 | 950 | 6.9 | 13.0 | .0 |
| 74-07-22 | 4.0 | .01 | 149 | 83 | 56 | 210 | 6.3 | 16.0 | .0 |
| 74-07-31 | 1.5 | .00 | 109 | 60 | 28 | 195 | 6.3 | 14.0 | .0 |

LONG ISLAND--Continued

NASSAU COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 404607073434201 | N 7087 | 74-07-19 | 23 | 570 | 30 | 27 | 14 | 22 | 3.7 |
| 405018073395301 | N 7244 | 74-07-24 | 13 | 270 | 40 | 4.6 | 2.7 | 4.2 | 1.0 |
| 404615073364601 | N 7386 | 74-06-26 | 16 | 190 | 10 | 13 | 5.0 | 6.9 | 1.2 |
| 404814073451801 | N 7613 | 74-08-01 | 9.8 | 320 | 80 | 9.4 | 4.0 | 4.9 | 1.6 |
| 404611073401001 | N 7651 | 74-06-06 | 15 | 0 | 10 | 5.5 | 4.0 | 6.0 | .9 |
| 405059073384101 | N 7857 | 74-08-14 | 7.8 | 60 | 20 | 3.6 | 1.5 | 4.0 | .9 |
| 404815073363901 | N 7873 | 74-06-12 | 7.4 | 0 | 0 | 1.0 | .5 | 3.5 | .4 |
| 404651073400601 | N 7892 | 74-06-14 | 11 | 120 | 20 | 3.7 | 2.2 | 4.8 | .8 |
| 404851073432301 | N 7977 | 74-07-16 | 21 | 230 | 0 | 26 | 14 | 25 | 2.1 |
| 404717073371001 | N 7980 | 74-07-17 | 11 | 0 | 0 | 13 | 5.2 | 9.5 | 2.2 |
| 404739073392101 | N 8010 | 74-06-12 | 12 | 50 | 0 | 5.5 | 3.2 | 6.2 | .8 |
| 404545073425501 | N 8038 | 74-07-12 | 18 | 0 | 0 | 17 | 11 | 8.5 | 1.5 |
| 404914073392401 | N 8095 | 74-07-24 | 11 | 1200 | 80 | 4.9 | 3.5 | 4.2 | .9 |
| 404610073392901 | N 8163 | 74-07-02 | 25 | 6000 | 20 | 10 | 6.8 | 9.5 | 1.5 |
| 405127073410201 | N 8164 | 74-07-11 | 20 | 0 | 20 | 17 | 6.9 | 9.0 | 1.7 |
| 404616073354501 | N 8181 | 74-06-20 | 18 | 590 | 120 | 7.7 | 3.8 | 8.1 | 1.0 |
| 404922073450001 | N 8221 | 74-07-15 | 13 | 210 | 940 | 110 | 66 | 400 | 6.4 |
| 404420073393901 | N 8409 | 74-06-03 | 15 | 120 | 10 | 22 | 9.4 | 14 | 2.4 |
| 405041073415801 | N 8478 | 74-07-17 | 14 | 0 | 380 | 15 | 3.4 | 17 | 1.8 |
| 404539073374101 | N 8799 | 74-07-10 | 15 | 240 | 20 | 9.0 | 4.6 | 9.0 | 1.1 |
| 405112073423601 | N 8890 | 74-07-12 | 16 | 190 | 60 | 21 | 8.0 | 10 | 3.0 |
| 404941073384501 | N 8937 | 74-06-18 | 13 | 230 | 40 | 7.1 | 3.3 | 6.5 | .8 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-07-19 | 41 | 34 | 42 | 52 | .2 | 6.3 | 5.6 | .01 | .01 | .19 | -- | .12 |
| 74-07-24 | 26 | 21 | 3.2 | 4.2 | .1 | -- | .20 | -- | .01 | -- | -- | -- |
| 74-06-26 | 25 | 21 | 20 | 14 | .1 | 1.5 | 1.2 | .00 | -- | .01 | .02 | .03 |
| 74-08-01 | 51 | 42 | 3.8 | 6.2 | .1 | .04 | .06 | .00 | .00 | .00 | .00 | .00 |
| 74-06-06 | 18 | 15 | 5.6 | 6.8 | .1 | 2.9 | 2.2 | .01 | .01 | .00 | .05 | .05 |
| 74-08-14 | 20 | 16 | 2.1 | 3.6 | .1 | .04 | -- | .00 | .00 | .02 | -- | .00 |
| 74-06-12 | 5 | 4 | .0 | 3.9 | .1 | .98 | .89 | .01 | .01 | .01 | .01 | .02 |
| 74-06-14 | 17 | 14 | 1.7 | 5.9 | .1 | 1.6 | 1.6 | .01 | .01 | .00 | .00 | .00 |
| 74-07-16 | 97 | 80 | 54 | 20 | .0 | 7.0 | 5.6 | .02 | .02 | .11 | .10 | .21 |
| 74-07-17 | 14 | 11 | 20 | 21 | .1 | 3.3 | 3.3 | .01 | .01 | .00 | .03 | .03 |
| 74-06-12 | 12 | 10 | 3.6 | 7.3 | .1 | 4.2 | 3.9 | .01 | .01 | .01 | .00 | .01 |
| 74-07-12 | 54 | 44 | 28 | 12 | .1 | 4.3 | 2.9 | .00 | .01 | .00 | .05 | .05 |
| 74-07-24 | 29 | 24 | 2.4 | 3.8 | .1 | -- | .06 | .00 | -- | -- | -- | -- |
| 74-07-02 | 35 | 29 | 16 | 13 | .1 | 2.7 | 2.6 | .01 | .00 | .00 | .08 | .08 |
| 74-07-11 | 37 | 30 | 25 | 12 | .3 | 3.3 | 3.2 | .00 | .01 | .00 | .03 | .03 |
| 74-06-20 | 34 | 28 | 10 | 6.2 | .1 | 1.7 | 1.4 | .01 | .01 | .03 | .06 | .09 |
| 74-07-15 | 111 | 91 | 100 | 870 | .2 | .02 | .01 | .00 | -- | -- | -- | -- |
| 74-06-03 | 24 | 20 | 29 | 16 | .2 | 15 | 13 | .01 | .01 | .00 | .01 | .01 |
| 74-07-17 | 94 | 77 | 2.9 | 4.0 | .2 | .00 | .00 | .01 | .01 | -- | -- | -- |
| 74-07-10 | 19 | 16 | 21 | 8.9 | .2 | 4.4 | 4.4 | .00 | .01 | .00 | .05 | .05 |
| 74-07-12 | 55 | 45 | 40 | 11 | .1 | 1.7 | 1.8 | .01 | .01 | .00 | .07 | .07 |
| 74-06-18 | 16 | 13 | 6.6 | 7.3 | .2 | 3.9 | 2.9 | .00 | -- | .08 | -- | .07 |

| DATE OF SAMPLE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 74-07-19 | 6.4 | .02 | 229 | 130 | 91 | 210 | 5.9 | 14.0 | .1 |
| 74-07-24 | -- | -- | 47 | 23 | 1 | 90 | 6.1 | 17.0 | -- |
| 74-06-26 | 1.5 | .01 | 94 | 53 | 33 | 160 | 6.9 | 11.0 | .0 |
| 74-08-01 | .04 | .01 | 65 | 40 | 0 | 140 | 6.3 | 14.5 | .0 |
| 74-06-06 | 3.0 | -- | 63 | 30 | 15 | 110 | 6.2 | 15.0 | .0 |
| 74-08-14 | -- | .41 | 34 | 15 | 0 | 50 | 6.5 | 15.0 | .0 |
| 74-06-12 | 1.0 | -- | 23 | 5 | 0 | 50 | 4.7 | 13.0 | .0 |
| 74-06-14 | 1.6 | -- | 46 | 18 | 4 | 70 | 6.7 | 15.0 | .0 |
| 74-07-16 | 7.2 | .01 | 235 | 120 | 43 | 390 | 6.3 | 17.0 | .3 |
| 74-07-17 | 3.3 | .01 | 104 | 54 | 42 | 190 | 5.5 | 14.0 | .0 |
| 74-06-12 | 4.2 | -- | 62 | 27 | 17 | 100 | 6.3 | 13.0 | .0 |
| 74-07-12 | 4.4 | .01 | 136 | 88 | 43 | 230 | 6.6 | 14.0 | .0 |
| 74-07-24 | -- | -- | 45 | 27 | 3 | 80 | 6.0 | 17.0 | -- |
| 74-07-02 | 2.8 | .01 | 111 | 53 | 24 | 170 | 6.2 | 16.0 | .0 |
| 74-07-11 | 3.3 | .02 | 124 | 71 | 41 | 195 | 6.1 | 14.0 | .0 |
| 74-06-20 | 1.8 | .01 | 78 | 35 | 7 | 120 | 6.3 | 14.0 | .0 |
| 74-07-15 | -- | .24 | 1620 | 550 | 460 | 3400 | 7.2 | 15.0 | .1 |
| 74-06-03 | 15 | -- | 177 | 94 | 74 | 340 | 6.1 | 13.0 | .2 |
| 74-07-17 | -- | .10 | 105 | 51 | 0 | 190 | 6.5 | 17.0 | .0 |
| 74-07-10 | 4.5 | .01 | 98 | 41 | 26 | 190 | 6.5 | 14.0 | .0 |
| 74-07-12 | 1.8 | .48 | 144 | 85 | 40 | 230 | 6.2 | 15.0 | .0 |
| 74-06-18 | 4.0 | .01 | 66 | 31 | 18 | 100 | 6.8 | 14.0 | .1 |

## CHEMICAL ANALYSES OF GROUND WATER IN NEW YORK--Continued

## WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LONG ISLAND--Continued

SUFFOLK COUNTY

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 404319073184601 | S 1807 | A 73-11-30 | 4.5 | 6400 | 370 | 35 | 8.6 | 8.0 | 10 |
| 410412071513001 | S 3599 | 74-04-08 | 14 | 20 | 10 | 7.5 | 8.0 | 44 | 3.8 |
| 405938072195801 | S 8288 | 74-04-10 | 11 | 3200 | 20 | 4.7 | 2.5 | 11 | .8 |
| 405507072244401 | S 8831 | 74-04-09 | 4.9 | 130 | 250 | 3.0 | 1.4 | 4.5 | .8 |
| 405756072173501 | S 8833 | 74-04-09 | .5 | 2500 | 40 | .5 | .5 | 5.6 | .6 |
| 405309072233101 | S 8836 | 74-04-09 | 5.9 | 11000 | 30 | 15 | 3.4 | 11 | 2.2 |
| 405756072104901 | S 8837 | 74-04-10 | 7.0 | 280 | 4300 | 19 | 3.1 | 40 | 9.0 |
| 405628072164701 | S 8838 | 74-04-09 | 8.4 | 430 | 40 | 19 | 3.2 | 8.5 | 8.4 |
| 405948072172101 | S 8844 | 74-04-09 | 17 | 160 | 10 | 3.7 | 1.3 | 7.0 | .8 |
| 404412073185701 | S 9645 | A 73-10-16 | 7.5 | 310 | 1500 | 17 | 3.4 | 23 | 5.6 |
| 404448073183001 | S 10222 | A 73-10-16 | 7.6 | 1200 | 450 | 7.7 | 2.3 | 12 | 3.5 |
| 404721073102001 | S 10230 | 73-11-20 | 8.5 | 870 | 10 | 5.0 | 3.5 | 14 | 1.2 |
| 404322073165501 | S 10373 | A 73-11-06 | 5.6 | 4600 | 1300 | 10 | 2.8 | 23 | 4.4 |
| 404315073164801 | S 10377 | 73-11-06 | 7.8 | 2200 | 780 | 12 | 2.3 | 25 | 6.0 |
| 410034072094701 | S 15048 | 74-04-10 | 8.3 | 2600 | 40 | 1.2 | 1.5 | 9.0 | .8 |
| 405438072181601 | S 15332 | 74-04-10 | 7.6 | 1900 | 900 | 48 | 8.0 | 11 | 6.0 |
| 410416071514601 | S 15812 | 74-04-08 | 13 | 320 | 20 | 4.8 | 4.1 | 27 | 1.8 |
| 410033072075501 | S 16121 | 74-04-10 | 10 | 420 | 30 | 3.5 | 3.0 | 13 | 3.0 |
| 410015072040401 | S 17174 | 74-04-10 | 2.3 | 18000 | 280 | 270 | 800 | 7000 | 260 |
| 404512073103601 | S 17464 | A 73-11-20 | 9.2 | 18000 | 130 | 15 | 3.2 | 12 | 3.8 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73-11-30 | 156 | 128 | 18 | 7.9 | .3 | .00 | .00 | 1.4 | .20 | 1.6 | 1.6 | .02 |
| 74-04-08 | 23 | 19 | 16 | 82 | .2 | .94 | .01 | .00 | .07 | .07 | 1.0 | .02 |
| 74-04-10 | 12 | 10 | 4.5 | 14 | .1 | 3.7 | .01 | -- | -- | -- | -- | .02 |
| 74-04-09 | 2 | 2 | 10 | 7.7 | .1 | .01 | .01 | .00 | .02 | .02 | .04 | .01 |
| 74-04-09 | 2 | 2 | 6.0 | 8.3 | .1 | -- | .01 | .28 | .03 | .31 | .31 | .01 |
| 74-04-09 | 26 | 21 | 23 | 16 | .1 | 3.1 | .01 | .20 | .03 | .23 | 3.3 | .01 |
| 74-04-10 | 49 | 40 | 27 | 64 | .2 | 2.3 | .01 | 2.8 | .30 | 3.1 | 5.4 | .01 |
| 74-04-09 | 6 | 5 | 35 | 14 | .2 | 8.0 | .01 | .05 | -- | .00 | 8.0 | .01 |
| 74-04-09 | 16 | 13 | 3.2 | 8.9 | .0 | .03 | .01 | .00 | .00 | .00 | .04 | .01 |
| 73-10-16 | 32 | 26 | 36 | 26 | .2 | 8.8 | .01 | 3.6 | -- | 3.0 | 12 | .00 |
| 73-10-16 | 8 | 7 | 18 | 17 | .3 | 2.9 | .00 | .14 | -- | .07 | 3.0 | .00 |
| 73-11-20 | 8 | 7 | 3.5 | 27 | .2 | 2.6 | .00 | .11 | -- | .07 | 2.7 | .00 |
| 73-11-06 | 11 | 9 | 30 | 25 | .2 | 7.9 | .02 | 3.1 | -- | .08 | 8.0 | .01 |
| 73-11-06 | 23 | 19 | 41 | 29 | .2 | 5.1 | .02 | 4.6 | -- | 3.8 | 8.9 | .01 |
| 74-04-10 | 8 | 7 | 7.6 | 12 | .0 | .44 | .01 | .00 | .00 | .00 | .45 | .01 |
| 74-04-10 | 11 | 9 | 100 | 25 | .0 | 7.5 | .02 | .32 | .10 | .42 | 7.9 | .01 |
| 74-04-08 | 20 | 16 | 9.5 | 42 | .0 | .10 | .01 | .00 | .01 | .01 | .12 | .01 |
| 74-04-10 | 14 | 11 | 14 | 20 | .1 | .68 | .01 | .01 | .03 | .04 | .73 | .00 |
| 74-04-10 | 169 | 139 | 1800 | 13000 | .6 | .00 | .01 | .25 | .26 | .51 | .52 | .11 |
| 73-11-20 | 7 | 6 | 30 | 17 | .3 | 4.6 | .00 | .18 | -- | .09 | 4.7 | .00 |

| DATE OF SAMPLE | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|
| 73-11-30 | 169 | 120 | 0 | 299 | 6.9 | 15.0 | .1 |
| 74-04-08 | 187 | 52 | 33 | 360 | 6.5 | 11.0 | .0 |
| 74-04-10 | 55 | 22 | 12 | 110 | 5.9 | 10.0 | .0 |
| 74-04-09 | 33 | 13 | 12 | 66 | 4.9 | 10.0 | .0 |
| 74-04-09 | 23 | 3 | 2 | 59 | 5.4 | 7.0 | .0 |
| 74-04-09 | 89 | 51 | 30 | 182 | 5.3 | 12.0 | .1 |
| 74-04-10 | 193 | 60 | 20 | 387 | 6.1 | 10.0 | .2 |
| 74-04-09 | 100 | 61 | 56 | 220 | 5.5 | 11.0 | .1 |
| 74-04-09 | 50 | 15 | 1 | 70 | 5.6 | 10.0 | .0 |
| 73-10-16 | 135 | 56 | 30 | 295 | 6.2 | -- | .1 |
| 73-10-16 | 72 | 29 | 22 | 145 | 5.8 | 13.0 | .1 |
| 73-11-20 | 67 | 27 | 20 | 137 | 6.3 | 11.0 | .0 |
| 73-11-06 | 107 | 37 | 27 | 251 | 5.6 | 13.0 | .0 |
| 73-11-06 | 135 | 39 | 21 | 281 | 5.9 | 13.0 | .1 |
| 74-04-10 | 44 | 9 | 3 | 75 | 5.9 | 11.0 | .0 |
| 74-04-10 | 211 | 150 | 140 | 400 | 5.2 | 10.0 | .1 |
| 74-04-08 | 112 | 29 | 12 | 210 | 6.4 | 11.0 | .0 |
| 74-04-10 | 73 | 21 | 10 | 130 | 6.0 | 10.5 | .0 |
| 74-04-10 | 24000 | 4000 | 3800 | 34200 | 6.6 | 12.0 | .1 |
| 73-11-20 | 94 | 51 | 45 | 188 | 5.3 | 12.0 | .0 |

A - Additional analyses in Minor Element analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LONG ISLAND--Continued

SUFFOLK COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 404457073194001 | S 17807 | 73-10-16 | 4.4 | 800 | 130 | 15 | 3.0 | 31 | 7.3 |
| 404401073194801 | S 21900 | 73-12-04 | 4.2 | 740 | 3300 | 20 | 3.3 | 21 | 6.5 |
| 405315072263201 | S 22499 | 74-04-10 | 16 | 320 | 40 | 3.7 | 2.8 | 8.9 | .7 |
| 405716072505701 | S 26780 | 73-10-17 | 8.6 | -- | 190 | 5.7 | 4.7 | 10 | .8 |
| 404603073214803 | S 27739 | 74-09-13 | 5.4 | 230 | 50 | .7 | .4 | 2.4 | .7 |
| 404603073214804 | S 27740 | 74-09-13 | 5.7 | 380 | 50 | .3 | .2 | 3.0 | .6 |
| 404703073264201 | S 29776 | 74-09-25 | 6.1 | 550 | 0 | -- | .5 | 3.7 | .6 |
| 404703073264203 | S 29777 | 74-09-24 | 5.8 | 1000 | 60 | 1.0 | .4 | 5.0 | 1.0 |
| 404703073264205 | S 29778 | 74-09-20 | 7.0 | 100 | 80 | 6.5 | 7.4 | 8.5 | 1.2 |
| 405221072255401 | S 36401 | 74-04-11 | 7.6 | 3900 | 40 | 1.5 | 2.0 | 9.0 | .6 |
| 404455073215001 | S 43814 | 74-09-16 | 7.9 | 300 | 420 | 11 | 3.1 | 21 | 5.2 |
| 404237073220601 | S 43815 | A 73-11-21 | 8.4 | 290 | 1200 | 18 | 4.2 | 23 | 5.5 |
| 404237073220602 | S 43816 | A 73-11-21 | 9.4 | 3800 | 510 | 13 | 8.5 | 24 | 3.2 |
| 404618073205001 | S 43817 | A 73-12-04 | 8.8 | 1800 | 260 | 5.5 | 4.2 | 9.5 | 1.2 |
| 404257073202401 | S 43818 | A 73-12-04 | 6.8 | 2200 | 1500 | 14 | 3.3 | 22 | 6.0 |
| 404250073202302 | S 43819 | A 73-12-03 | 9.7 | 3000 | 70 | 9.2 | 7.1 | 22 | 1.5 |
| 404302073185502 | S 43822 | A 73-12-10 | 14 | -- | -- | 16 | 3.5 | 11 | 3.5 |
| 404920073150901 | S 45594 | 73-12-10 | 9.2 | -- | -- | 9.5 | 4.3 | 5.0 | 1.0 |
| 405906072153501 | S 46524 | 74-04-10 | 4.5 | 10 | 70 | .9 | .5 | 4.7 | .1 |
| 410156072133601 | S 47236 | 74-04-18 | 12 | 870 | 20 | -- | -- | -- | -- |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73-10-16 | 21 | 17 | 55 | 31 | .2 | 7.0 | -- | .00 | -- | 3.0 | -- | 2.4 |
| 73-12-04 | 52 | 43 | 36 | 25 | .2 | 7.6 | -- | .01 | -- | 6.5 | -- | 5.8 |
| 74-04-10 | 16 | 13 | 7.2 | 13 | .1 | .25 | -- | .01 | -- | .00 | .03 | .03 |
| 73-10-17 | 12 | 10 | 14 | 17 | .2 | 2.2 | -- | .00 | -- | .08 | -- | -- |
| 74-09-13 | 11 | 9 | 1.5 | 2.9 | .1 | 1.0 | .03 | .00 | .00 | .07 | .00 | .00 |
| 74-09-13 | 8 | 7 | .9 | 3.7 | .1 | .09 | .08 | .00 | .00 | .00 | .00 | .00 |
| 74-09-25 | 12 | 11 | 2.7 | 22 | .0 | .01 | -- | .00 | .00 | .00 | .01 | .01 |
| 74-09-24 | 10 | 9 | .7 | 4.2 | .1 | 3.0 | .88 | .00 | .00 | .05 | .01 | .06 |
| 74-09-20 | 16 | 14 | .0 | 19 | .1 | 5.2 | 6.7 | .00 | .01 | .05 | .04 | .09 |
| 74-04-11 | 6 | 5 | 5.9 | 14 | .1 | .09 | -- | .01 | -- | .02 | 2.0 | 2.0 |
| 74-09-16 | 6 | 6 | 30 | 29 | .2 | 2.9 | -- | .00 | .00 | .49 | 1.5 | 2.0 |
| 73-11-21 | 26 | 21 | 36 | 27 | .3 | 8.7 | -- | .00 | -- | 2.5 | .00 | 2.5 |
| 73-11-21 | 12 | 10 | 34 | 29 | .2 | 11 | -- | .00 | -- | .45 | .02 | .47 |
| 73-12-04 | 11 | 9 | 1.6 | 11 | .1 | 7.8 | -- | .00 | -- | .05 | .01 | .06 |
| 73-12-04 | 25 | 21 | 35 | 25 | .2 | 7.7 | -- | .00 | -- | 3.2 | .10 | 3.3 |
| 73-12-03 | 14 | 11 | 16 | 26 | .3 | 11 | -- | .01 | -- | .04 | .01 | .05 |
| 73-12-10 | 40 | 33 | 19 | 15 | .2 | 1.9 | -- | .00 | -- | .02 | .21 | .22 |
| 73-12-10 | 8 | 7 | 23 | 10 | .2 | 2.2 | -- | .01 | -- | .05 | -- | .01 |
| 74-04-10 | 2 | 2 | 4.2 | 7.9 | .1 | .02 | -- | .01 | -- | .01 | .03 | .04 |
| 74-04-18 | 7 | 6 | 8.0 | 16 | -- | -- | -- | .01 | -- | -- | -- | .00 |

| DATE OF SAMPLE | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 73-10-16 | 9.4 | .00 | 158 | 50 | 33 | 330 | 5.8 | 14.0 | .1 |
| 73-12-04 | 13 | .00 | 142 | 64 | 21 | 321 | 6.1 | -- | .3 |
| 74-04-10 | .29 | .02 | 60 | 21 | 8 | 92 | 6.1 | 10.5 | .0 |
| 73-10-17 | -- | .00 | 67 | 34 | 24 | 127 | 6.6 | 12.0 | .0 |
| 74-09-13 | 1.0 | .00 | 20 | 3 | 0 | 30 | 6.1 | 10.5 | .0 |
| 74-09-13 | .09 | .01 | 19 | 2 | 0 | 29 | 5.4 | 10.0 | .0 |
| 74-09-25 | .02 | .06 | 345 | 7 | 0 | 46 | 6.2 | 11.0 | .0 |
| 74-09-24 | 3.1 | .03 | 358 | 4 | 0 | 37 | 5.6 | 11.0 | .0 |
| 74-09-20 | 5.3 | .00 | 88 | 47 | 33 | 155 | 5.2 | 13.0 | .1 |
| 74-04-11 | 2.1 | .01 | 44 | 12 | 7 | 85 | 6.1 | 11.0 | .0 |
| 74-09-16 | 4.9 | .00 | 128 | 40 | 34 | 240 | 5.2 | 14.0 | .1 |
| 73-11-21 | 11 | .00 | 135 | 62 | 41 | 295 | 5.9 | 14.0 | .0 |
| 73-11-21 | 11 | .00 | 128 | 67 | 58 | 283 | 5.8 | 11.0 | .1 |
| 73-12-04 | 7.9 | .00 | 47 | 31 | 22 | 119 | 6.2 | -- | .0 |
| 73-12-04 | 11 | .00 | 125 | 49 | 28 | 274 | 5.8 | 13.0 | .0 |
| 73-12-03 | 11 | .00 | 99 | 52 | 41 | 236 | 6.0 | 12.0 | .2 |
| 73-12-10 | 2.1 | .01 | 102 | 54 | 22 | 181 | 6.0 | 12.0 | .3 |
| 73-12-10 | 2.2 | .00 | 66 | 41 | 35 | 85 | 6.4 | 10.0 | .0 |
| 74-04-10 | .07 | .01 | 24 | 4 | 3 | 50 | 5.3 | 9.0 | .0 |
| 74-04-18 | .01 | .00 | -- | -- | -- | 100 | 6.0 | 13.0 | .0 |

A - Additional analyses in Minor Element analyses of ground waters in New York.

### LONG ISLAND--Continued

### SUFFOLK COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 404904072570002 | S 48424T | 73-12-06 | 14 | -- | -- | 6.1 | 1.8 | 4.2 | .8 |
| 405606072202701 | S 48425 | 74-04-18 | 8.0 | 120 | 40 | -- | -- | -- | -- |
| 405740072190001 | S 48426 | A 74-05-20 | 15 | 690 | 30 | -- | -- | -- | -- |
| 405618072180501 | S 48427 | A 74-05-20 | 9.7 | 340 | 20 | -- | -- | -- | -- |
| 405704072165901 | S 48428 | 74-04-09 | 7.6 | 250 | 20 | 1.0 | 1.7 | 6.4 | .7 |
| 405807072121001 | S 48429 | 74-04-10 | 6.8 | 710 | 40 | 47 | 5.5 | 7.7 | .8 |
| 405501072215501 | S 48430 | 74-04-18 | 7.3 | 30 | 20 | -- | -- | -- | -- |
| 405606072235701 | S 48432 | A 74-05-15 | 8.5 | 210 | 20 | -- | -- | -- | -- |
| 405644072220101 | S 48433 | A 74-05-15 | 8.5 | 420 | 20 | -- | -- | -- | -- |
| 405227072352301 | S 48434 | AB 73-10-14 | 7.1 | 90 | 10 | 4.3 | 2.5 | 10 | .7 |
| 405051072353101 | S 48435 | AB 73-10-02 | 7.2 | 0 | 130 | 10 | 2.4 | 28 | 5.1 |
| 405229072415601 | S 48436 | AB 73-10-15 | 6.1 | 60 | 30 | 1.5 | 1.7 | 4.0 | .3 |
| 405831072171201 | S 48437 | 74-04-09 | 11 | 540 | 30 | 2.0 | 1.4 | 5.7 | .5 |
| 405844072191601 | S 48438 | 74-04-10 | 11 | 230 | 230 | 3.5 | 1.8 | 8.5 | 1.0 |
| 405325072262702 | S 48439 | 74-04-09 | 7.5 | 880 | 30 | 7.1 | 3.0 | 12 | 1.2 |
| 405325072262701 | S 48440 | 74-04-09 | 14 | 210 | 30 | 3.1 | 1.9 | 6.8 | .7 |
| 405349072234801 | S 48441 | AB 73-10-01 | 9.1 | 0 | 20 | 31 | 6.0 | 13 | 1.3 |
| 404941072414801 | S 48442 | AB 73-10-10 | 5.4 | 60 | 80 | 2.2 | 1.3 | 14 | 1.0 |
| 405838072154001 | S 48517 | A 74-05-15 | 7.2 | 340 | 0 | -- | -- | -- | -- |
| 405650072145201 | S 48518 | A 74-05-15 | 12 | 750 | 30 | -- | -- | -- | -- |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73-12-06 | 24 | 20 | 4.5 | 4.7 | .2 | .01 | .00 | .01 | -- | .00 | .01 | .02 |
| 74-04-18 | 6 | 5 | 120 | 31 | -- | 11 | .01 | .08 | .00 | .08 | 11 | .00 |
| 74-05-20 | 20 | 16 | 79 | 19 | -- | 2.5 | .01 | .01 | .05 | .06 | 2.6 | .01 |
| 74-05-20 | 7 | 6 | 46 | 29 | -- | 4.3 | .01 | .01 | .10 | .11 | 4.4 | .01 |
| 74-04-09 | 3 | 2 | 5.8 | 11 | .1 | .04 | .01 | .00 | .01 | .01 | .06 | .01 |
| 74-04-10 | 18 | 15 | 100 | 14 | .2 | 5.0 | .01 | .07 | -- | .04 | 5.0 | .01 |
| 74-04-18 | 18 | 15 | 6.9 | 12 | -- | .06 | .01 | -- | -- | .00 | .07 | .00 |
| 74-05-15 | 7 | 6 | 6.2 | 11 | -- | .03 | .01 | .01 | .05 | .06 | .10 | .01 |
| 74-05-15 | 8 | 7 | 6.8 | 8.5 | -- | .01 | .01 | .01 | -- | .00 | .02 | .01 |
| 73-10-14 | 13 | 11 | 5.5 | 18 | .5 | .36 | .00 | .01 | .04 | .05 | .41 | -- |
| 73-10-02 | 3 | 2 | 20 | 50 | .4 | 3.5 | .00 | .00 | .04 | .04 | 3.5 | -- |
| 73-10-15 | 4 | 3 | 4.9 | 7.0 | .5 | .01 | .00 | .01 | .00 | .01 | .02 | -- |
| 74-04-09 | 8 | 7 | 5.5 | 8.1 | .1 | .00 | .01 | .03 | .00 | .03 | .04 | .01 |
| 74-04-10 | 8 | 7 | 10 | 11 | .1 | 1.2 | .01 | .03 | .07 | .10 | 1.3 | .00 |
| 74-04-09 | 12 | 10 | 8.7 | 27 | .1 | .73 | .01 | .04 | .01 | .05 | .79 | .01 |
| 74-04-09 | 12 | 10 | 6.4 | 9.6 | .2 | .31 | .01 | .00 | .02 | .02 | .34 | .02 |
| 73-10-01 | 7 | 6 | 74 | 25 | .3 | 6.1 | .00 | .00 | .05 | .05 | 6.1 | -- |
| 73-10-10 | 4 | 3 | 5.5 | 23 | .2 | .12 | .00 | .00 | .01 | .01 | .13 | -- |
| 74-05-15 | 3 | 2 | 8.4 | 12 | -- | .16 | .01 | .01 | .03 | .04 | .21 | .01 |
| 74-05-15 | 11 | 9 | 5.4 | 7.7 | -- | .01 | .01 | .00 | .05 | .05 | .07 | .01 |

| DATE OF SAMPLE | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|
| 73-12-06 | 48 | 23 | 3 | 67 | 6.7 | 13.0 | .0 |
| 74-04-18 | -- | -- | -- | 370 | 5.6 | 11.0 | .0 |
| 74-05-20 | -- | -- | -- | 320 | 6.4 | 11.0 | .0 |
| 74-05-20 | -- | -- | -- | 280 | 5.5 | 12.0 | .1 |
| 74-04-09 | 36 | 9 | 7 | 65 | 5.1 | 9.0 | .0 |
| 74-04-10 | 191 | 140 | 125 | 350 | 6.1 | 10.0 | .1 |
| 74-04-18 | -- | -- | -- | 68 | 5.5 | 12.0 | .0 |
| 74-05-15 | -- | -- | -- | 78 | 6.1 | 12.0 | .0 |
| 74-05-15 | -- | -- | -- | 64 | 5.9 | 12.0 | .0 |
| 73-10-14 | 55 | 21 | 10 | 100 | 6.7 | 10.0 | .0 |
| 73-10-02 | 125 | 35 | 32 | 260 | 5.2 | 12.0 | .0 |
| 73-10-15 | 28 | 11 | 7 | 43 | 6.2 | 10.0 | .0 |
| 74-04-09 | 38 | 11 | 4 | 60 | 6.0 | 10.0 | .0 |
| 74-04-10 | 51 | 16 | 10 | 93 | 5.6 | 9.0 | .0 |
| 74-04-09 | 73 | 30 | 20 | 140 | 5.9 | 11.0 | .0 |
| 74-04-09 | 49 | 16 | 6 | 75 | 5.8 | 11.0 | .0 |
| 73-10-01 | 163 | 100 | 96 | 316 | 6.0 | 12.0 | .0 |
| 73-10-10 | 55 | 11 | 8 | 100 | 5.8 | 11.0 | .0 |
| 74-05-15 | -- | -- | -- | 72 | 5.7 | 12.0 | .0 |
| 74-05-15 | -- | -- | -- | 63 | 5.9 | 12.0 | .0 |

A - Additional analyses in Minor Element analyses of ground waters in New York.

B - Additional analyses in Radiochemical analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LONG ISLAND--Continued

SUFFOLK COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|
| 410243071560101 | S 48519 | 74-04-10 | .3 | 160 | 80 | 8.0 | 5.4 | 20 | 4.0 |
| 405818072132101 | S 48520 | 74-04-10 | 10 | 3300 | 660 | 4.5 | 2.3 | 12 | 6.7 |
| 405940072164701 | S 48521 | A 74-05-15 | 12 | 360 | 20 | -- | -- | -- | -- |
| 405858072062401 | S 48522 | 74-04-10 | 9.3 | 1600 | -- | 5.0 | 4.0 | 18 | 1.3 |
| 410149071583201 | S 48577 | 74-04-10 | 14 | 880 | 80 | 4.5 | 2.9 | 13 | 1.6 |
| 405928072110401 | S 48578 | 74-04-18 | 12 | 560 | 50 | -- | -- | -- | -- |
| 410316071535501 | S 48579 | AB 73-10-11 | 14 | 150 | 110 | 7.5 | 5.5 | 23 | 2.7 |
| 410024072103201 | S 48580 | AB 74-04-18 | 11 | 230 | 50 | -- | -- | -- | -- |
| 405308072322201 | S 48581 | 73-10-01 | 8.1 | 0 | 10 | 2.0 | 1.3 | 4.3 | .5 |
| 405225072371001 | S 48582 | ABC 73-10-02 | 7.8 | 80 | 40 | 2.0 | 1.8 | 4.2 | .6 |
| 405139072385001 | S 48583 | 73-10-03 | 7.1 | 150 | 50 | 1.5 | .9 | 4.0 | .2 |
| 405139072385002 | S 48584 | 73-10-03 | 6.4 | 100 | 80 | 1.2 | 1.3 | 4.3 | .7 |
| 404502073232401 | S 49385 | 73-10-18 | 5.5 | 1200 | 140 | 1.0 | .4 | 3.3 | .4 |
| 405353073182201 | S 49439T | 73-10-04 | 13 | 1700 | 210 | 7.2 | 3.4 | 8.0 | 1.0 |
| 405006072490001 | S 49477T | 73-10-10 | 22 | 1700 | 210 | 21 | 1.6 | 5.8 | 1.3 |
| 405846072093001 | S 49898 | 73-10-10 | 7.1 | 90 | 50 | 1.7 | 1.9 | 8.0 | 1.1 |
|  |  | 74-04-10 | 4.4 | 350 | 100 | 2.2 | 1.1 | 12 | 1.2 |
| 405723072375403 | S 50399T | 73-11-28 | 15 | 2100 | 350 | 6.6 | 3.3 | 8.2 | .9 |
|  |  | 73-12-03 | 14 | -- | 10 | 12 | 6.2 | 12 | 1.2 |
|  |  | 73-12-06 | 11 | -- | -- | 16 | 12 | 15 | 2.5 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-04-10 | 39 | 32 | 11 | 27 | -- | 2.3 | .01 | .05 | .02 | .07 | 2.4 | .02 |
| 74-04-10 | 9 | 7 | 12 | 19 | .1 | .70 | .01 | .15 | -- | .04 | .75 | .01 |
| 74-05-15 | 10 | 8 | 5.9 | 8.1 | -- | .62 | .01 | .03 | .00 | .02 | .65 | .01 |
| 74-04-10 | 11 | 9 | 9.5 | 35 | .2 | .17 | .01 | .00 | .01 | .01 | .19 | .01 |
| 74-04-10 | 20 | 16 | 4.8 | 20 | .2 | .65 | .01 | .04 | .02 | .06 | .72 | .03 |
| 74-04-18 | 8 | 7 | 11 | 27 | -- | 11 | .05 | 1.7 | .00 | 1.6 | 13 | .00 |
| 73-10-11 | 24 | 20 | 10 | 44 | .2 | 1.2 | .00 | .04 | -- | .03 | 1.2 | -- |
| 74-04-18 | 5 | 4 | 12 | 15 | -- | .74 | .01 | .05 | -- | .00 | .75 | .00 |
| 73-10-01 | 5 | 4 | 5.0 | 10 | .4 | .09 | .00 | .00 | .02 | .02 | .11 | -- |
| 73-10-02 | 6 | 5 | 5.2 | 11 | .3 | .05 | .00 | .00 | .01 | .01 | .06 | -- |
| 73-10-03 | 5 | 4 | 3.6 | 6.4 | .2 | .01 | .00 | .00 | .11 | .11 | .12 | -- |
| 73-10-03 | 3 | 2 | 4.4 | 8.5 | .0 | .06 | .00 | .04 | -- | .01 | .07 | -- |
| 73-10-18 | 2 | 2 | .8 | 4.9 | .3 | .92 | .00 | .00 | .04 | .04 | .96 | .00 |
| 73-10-04 | 12 | 10 | 6.2 | 12 | .3 | 4.6 | .00 | .00 | 1.0 | 1.0 | 5.6 | .01 |
| 73-10-10 | 66 | 54 | 6.5 | 7.0 | .5 | .00 | .00 | .24 | .00 | .24 | .24 | .06 |
| 73-10-10 | 8 | 7 | 5.3 | 13 | .1 | .11 | .00 | -- | -- | .05 | .16 | -- |
| 74-04-10 | 6 | 5 | 4.0 | 21 | .1 | .22 | .01 | .02 | .05 | .07 | .30 | .00 |
| 73-11-28 | 18 | 15 | 6.0 | 12 | .3 | 3.0 | .00 | .00 | .03 | .03 | 3.0 | .01 |
| 73-12-03 | 17 | 14 | 28 | 17 | .4 | 4.2 | .00 | .10 | .05 | .15 | 4.3 | .01 |
| 73-12-06 | 12 | 10 | 59 | 16 | .2 | 8.9 | .00 | .14 | .05 | .19 | 9.1 | .02 |

| DATE OF SAMPLE | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|
| 74-04-10 | 115 | 42 | 10 | 220 | 6.0 | 11.0 | .0 |
| 74-04-10 | 71 | 21 | 13 | 137 | 5.7 | 10.0 | .0 |
| 74-05-15 | -- | -- | -- | 67 | 6.2 | 11.0 | .0 |
| 74-04-10 | 88 | 29 | 20 | 175 | 6.0 | 10.0 | .0 |
| 74-04-10 | 71 | 23 | 7 | 128 | 6.9 | 10.0 | .0 |
| 74-04-18 | -- | -- | -- | 260 | 5.9 | 13.0 | .1 |
| 73-10-11 | 119 | 41 | 22 | 221 | 6.3 | 12.0 | .0 |
| 74-04-18 | -- | -- | -- | 100 | 5.7 | 12.0 | .0 |
| 73-10-01 | 34 | 10 | 6 | 58 | 6.2 | 11.0 | .0 |
| 73-10-02 | 36 | 12 | 7 | 62 | 6.2 | 10.0 | .0 |
| 73-10-03 | 26 | 7 | 3 | 38 | 6.4 | 10.0 | .0 |
| 73-10-03 | 28 | 8 | 6 | 47 | 6.3 | 10.5 | .0 |
| 73-10-18 | 18 | 4 | 3 | 29 | 5.5 | 10.6 | .0 |
| 73-10-04 | 57 | 32 | 22 | 111 | 6.8 | 11.5 | .0 |
| 73-10-10 | 98 | 59 | 5 | 143 | 7.8 | 11.5 | .0 |
| 73-10-10 | 42 | 12 | 6 | 74 | 6.0 | 11.5 | .0 |
| 74-04-10 | 49 | 10 | 5 | 96 | 5.5 | 10.0 | .0 |
| 73-11-28 | 61 | 30 | 15 | 106 | 6.5 | 10.5 | .0 |
| 73-12-03 | 99 | 55 | 42 | 183 | 6.3 | 11.5 | .0 |
| 73-12-06 | 138 | 89 | 80 | 274 | 5.9 | 11.5 | .0 |

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

LONG ISLAND--Continued

SUFFOLK COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 410349072222201 | S 51169 | | 74-03-07 | 13 | 60 | 40 | 12 | 7.0 | 8.0 | .9 |
| 410311072215501 | S 51170 | | 74-02-28 | 11 | 70 | 20 | 3.0 | 2.0 | 11 | .7 |
| 410410072214701 | S 51171 | A | 74-03-08 | 14 | 160 | 30 | 12 | 5.2 | 12 | 4.4 |
| 410350072210601 | S 51172 | | 74-03-04 | 11 | 90 | 120 | 16 | 3.7 | 15 | 7.8 |
| 410510072212301 | S 51173 | AC | 74-04-23 | 11 | 170 | 150 | 8.5 | 4.6 | 15 | 4.4 |
| 410437072205601 | S 51174 | A | 74-03-08 | 12 | 120 | 40 | 10 | 4.5 | 15 | 1.2 |
| 410416072205101 | S 51175 | A | 74-03-06 | 14 | 90 | 0 | 9.0 | 4.2 | 13 | 1.3 |
| 410430072202301 | S 51176 | A | 74-03-05 | 11 | 150 | 20 | 5.5 | 3.7 | 9.5 | 1.9 |
| 410316072192901 | S 51177 | A | 74-02-28 | 11 | 120 | 60 | 5.6 | 2.0 | 9.0 | 1.0 |
| 410344072193201 | S 51178 | A | 74-06-12 | 20 | 310 | 40 | -- | -- | -- | -- |
| 410424072192801 | S 51179 | AC | 74-04-23 | 14 | 290 | 70 | 16 | 11 | 11 | 1.4 |
| 410452072200201 | S 51180 | A | 74-03-04 | 15 | 160 | 10 | 7.0 | 4.3 | 11 | 1.2 |
| 410534072194601 | S 51181 | A | 74-03-01 | 10 | 100 | 10 | 23 | 13 | 11 | .4 |
| 410602072195801 | S 51182 | A | 74-02-28 | 11 | 70 | 30 | 1.7 | 2.3 | 7.0 | .7 |
| 410334072172701 | S 51183 | AB | 74-03-12 | 12 | 50 | 30 | 5.5 | 3.0 | 8.5 | .8 |
| 410147072184101 | S 51184 | B | 74-03-01 | 9.1 | 300 | 260 | 11 | 17 | 170 | 4.2 |
| 410132072184601 | S 51185 | A | 74-03-01 | 9.1 | 40 | 30 | 2.4 | 2.7 | 9.0 | .7 |
| | | B | 74-05-20 | 9.8 | 120 | 180 | -- | -- | -- | -- |
| 410047072184701 | S 51186 | | 74-03-04 | 9.4 | 70 | 20 | 8.0 | 4.5 | 16 | 1.0 |
| 410253071570801 | S 51274 | | 74-04-10 | 15 | 130 | 20 | 3.3 | 2.3 | 13 | 1.2 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (ML/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-03-07 | 18 | 15 | 33 | 10 | .3 | 1.9 | .10 | .01 | .11 | .12 | 2.0 | -- |
| 74-02-28 | 8 | 7 | 5.0 | 22 | .1 | .28 | .02 | -- | -- | 1.5 | 1.8 | -- |
| 74-03-08 | 14 | 11 | 21 | 22 | .2 | 5.7 | .01 | .01 | .12 | .13 | 5.9 | -- |
| 74-03-04 | 13 | 11 | 30 | 25 | .2 | 5.8 | .02 | .00 | .00 | .00 | 5.8 | -- |
| 74-04-23 | 23 | 19 | 18 | 22 | .2 | 1.7 | .01 | -- | -- | -- | -- | -- |
| 74-03-08 | 19 | 16 | 21 | 23 | .2 | 2.4 | .01 | .01 | .05 | .06 | 2.5 | -- |
| 74-03-06 | 18 | 15 | 17 | 19 | .1 | 3.1 | .01 | .00 | .07 | .07 | 3.2 | -- |
| 74-03-05 | 18 | 15 | 15 | 13 | .2 | 1.2 | .01 | .00 | .00 | .00 | 1.2 | -- |
| 74-02-28 | 21 | 17 | 8.0 | 13 | .0 | .53 | .00 | .02 | .00 | .02 | .55 | -- |
| 74-06-12 | 23 | 19 | 24 | 14 | -- | -- | -- | -- | -- | -- | -- | -- |
| 74-04-23 | 16 | 13 | 65 | 11 | .1 | .29 | .01 | .08 | -- | .00 | .30 | -- |
| 74-03-04 | 32 | 26 | 7.7 | 16 | .1 | 1.4 | .01 | .00 | .09 | .09 | 1.5 | -- |
| 74-03-01 | 12 | 10 | 58 | 22 | .2 | 11 | 1.0 | -- | -- | .04 | 11 | -- |
| 74-02-28 | 10 | 8 | 8.5 | 10 | .1 | .29 | .02 | -- | -- | .02 | .33 | -- |
| 74-03-12 | 18 | 15 | 5.9 | 13 | 2.0 | 1.2 | .00 | .00 | .03 | .03 | 1.2 | -- |
| 74-03-01 | 11 | 9 | 49 | 300 | .0 | 2.0 | .00 | .01 | .05 | .06 | 2.1 | -- |
| 74-03-01 | 9 | 7 | 10 | 15 | .1 | .18 | .00 | .03 | .00 | .03 | .21 | -- |
| 74-05-20 | 11 | 9 | 59 | 260 | -- | .81 | .04 | .01 | .07 | .08 | .93 | .01 |
| 74-03-04 | 9 | 7 | 17 | 28 | .1 | 3.7 | .01 | .00 | .45 | .45 | 4.1 | -- |
| 74-04-10 | 13 | 11 | 7.5 | 21 | .1 | 1.6 | .01 | .01 | .05 | .06 | 1.7 | .01 |

| DATE OF SAMPLE | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|
| 74-03-07 | 93 | 59 | 44 | 161 | 6.0 | 11.0 | -- | .0 |
| 74-02-28 | 59 | 16 | 9 | 108 | 5.9 | 12.5 | -- | .0 |
| 74-03-08 | 98 | 51 | 40 | 197 | 5.9 | 11.5 | -- | .0 |
| 74-03-04 | 115 | 55 | 45 | 233 | 5.7 | 11.5 | 2.5 | .0 |
| 74-04-23 | 95 | 41 | 22 | 171 | 6.7 | 13.5 | -- | .0 |
| 74-03-08 | 96 | 44 | 28 | 185 | 6.0 | 12.5 | -- | .0 |
| 74-03-06 | 86 | 40 | 25 | 171 | 6.0 | 11.0 | .0 | .0 |
| 74-03-05 | 69 | 29 | 14 | 125 | 5.9 | 11.0 | 1.0 | .0 |
| 74-02-28 | 60 | 22 | 5 | 111 | 5.7 | 11.5 | -- | .0 |
| 74-06-12 | -- | -- | -- | 200 | 6.4 | 12.0 | .2 | .0 |
| 74-04-23 | 137 | 85 | 72 | 217 | 6.7 | 12.5 | -- | .0 |
| 74-03-04 | 78 | 35 | 9 | 146 | 6.0 | 11.0 | .5 | .0 |
| 74-03-01 | 144 | 111 | 101 | 325 | 6.0 | 11.0 | -- | .0 |
| 74-02-28 | 46 | 14 | 6 | 80 | 6.0 | 10.5 | -- | .0 |
| 74-03-12 | 60 | 26 | 11 | 101 | 6.1 | 10.5 | -- | .0 |
| 74-03-01 | 566 | 97 | 88 | 1130 | 5.5 | 12.0 | -- | .0 |
| 74-03-01 | 53 | 17 | 10 | 100 | 5.6 | 11.5 | -- | .0 |
| 74-05-20 | -- | -- | -- | 760 | 5.8 | 12.0 | -- | .0 |
| 74-03-04 | 88 | 39 | 31 | 191 | 5.6 | 11.0 | .0 | .0 |
| 74-04-10 | 70 | 18 | 7 | 111 | 6.7 | 12.0 | -- | .0 |

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

LONG ISLAND--Continued

SUFFOLK COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 410212071574601 | S 51275 | | 74-04-11 | 16 | 520 | 20 | 7.0 | 4.5 | 20 | 1.3 |
| 404119072593501 | S 51461 | | 74-09-19 | 9.3 | 500 | 50 | 1.7 | 1.0 | 11 | 2.8 |
| 405716072413301 | S 51566 | ABC | 74-07-23 | 9.7 | 90 | 90 | 100 | 18 | 8.2 | 4.5 |
| 405653072422501 | S 51567 | A | 74-06-10 | 9.4 | 70 | 70 | 80 | 11 | 10 | 3.0 |
| 405808072385401 | S 51568 | ABC | 74-08-11 | 8.3 | 150 | 20 | 47 | 6.1 | 20 | 5.1 |
| 405805072403701 | S 51571 | ABC | 74-06-28 | 9.3 | 20 | 20 | 55 | 12 | 14 | 2.5 |
| 405512072395201 | S 51573 | ABC | 74-07-09 | 40 | 70 | 60 | 19 | 2.4 | 6.4 | .8 |
| 405544072411801 | S 51575 | ABC | 74-08-07 | 5.6 | 2100 | 90 | 3.0 | 1.6 | 6.1 | 1.1 |
| 405559072425201 | S 51576 | ABC | 74-07-12 | 7.7 | 10 | 100 | 23 | 6.3 | 8.0 | 2.9 |
| 405630072442001 | S 51577 | | 74-07-09 | 8.1 | 50 | 230 | 62 | 11 | 18 | 7.2 |
| 405721072453701 | S 51578 | | 74-06-24 | 8.6 | 20 | 20 | 30 | 9.8 | 8.2 | 2.8 |
| 405542072463001 | S 51579 | ABC | 74-06-25 | 8.7 | 0 | 0 | 8.4 | 3.6 | 5.9 | 1.4 |
| 405714072470901 | S 51580 | | 74-06-20 | 7.2 | 20 | 20 | 16 | 4.6 | 6.7 | 2.8 |
| 405722072342001 | S 51581 | AC | 74-07-30 | 7.5 | 60 | 40 | 85 | 14 | 15 | 3.6 |
| 405853072353901 | S 51582 | | 74-07-25 | 9.5 | 0 | 0 | 82 | 12 | 14 | 5.5 |
| 405500072495201 | S 51583 | ABC | 74-08-04 | 6.4 | 0 | 0 | 2.1 | 2.4 | 7.4 | .9 |
| 405757072491801 | S 51584 | ABC | 74-09-10 | 15 | 140 | 50 | 8.4 | 3.4 | 8.5 | .9 |
| 405513072505401 | S 51585 | ABC | 74-09-12 | 9.5 | 70 | 50 | 17 | 3.8 | 8.5 | .8 |
| 405642072491901 | S 51586 | ABC | 74-08-05 | 7.5 | 120 | 60 | 15 | 11 | 6.0 | 1.3 |
| 405809072370901 | S 51587 | ABC | 74-07-26 | 8.5 | 40 | 40 | 28 | 5.4 | 9.2 | 9.6 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-04-11 | 18 | 15 | 14 | 29 | .2 | -- | -- | .01 | -- | .00 | -- | .00 |
| 74-09-19 | 21 | 17 | 3.8 | 3.5 | .2 | -- | .03 | -- | .00 | -- | -- | -- |
| 74-07-23 | 5 | 4 | 240 | 43 | .0 | -- | 18 | -- | .01 | -- | .04 | -- |
| 74-06-10 | 7 | 6 | 180 | 35 | .1 | 10 | 9.4 | .01 | .01 | .01 | -- | -- |
| 74-08-11 | 9 | 7 | 108 | 40 | .1 | -- | 9.4 | -- | .00 | -- | .00 | -- |
| 74-06-28 | 7 | 6 | 140 | 29 | .0 | -- | .00 | -- | .01 | -- | .00 | -- |
| 74-07-09 | 78 | 64 | .5 | 5.8 | .2 | -- | .00 | -- | .01 | -- | -- | -- |
| 74-08-07 | 15 | 12 | 8.7 | 7.0 | .1 | -- | .02 | -- | .01 | -- | .37 | -- |
| 74-07-12 | 4 | 3 | 54 | 16 | .2 | -- | 9.8 | -- | .01 | -- | .00 | -- |
| 74-07-09 | 12 | 10 | 160 | 23 | .3 | -- | 10 | -- | .01 | -- | .03 | -- |
| 74-06-24 | 7 | 6 | 76 | 18 | .1 | 7.2 | 6.8 | .00 | .00 | .01 | -- | -- |
| 74-06-25 | 5 | 4 | 30 | 7.6 | .1 | -- | 1.2 | -- | .00 | -- | .00 | -- |
| 74-06-20 | 4 | 3 | 36 | 13 | .1 | 4.8 | 4.7 | .00 | -- | .00 | -- | -- |
| 74-07-30 | 4 | 3 | 180 | 38 | .1 | -- | 13 | -- | .01 | -- | .02 | -- |
| 74-07-25 | 5 | 4 | 170 | 25 | .2 | -- | 16 | -- | .00 | -- | .01 | -- |
| 74-08-04 | 2 | 2 | 7.7 | 13 | .2 | -- | .19 | -- | .00 | -- | .00 | -- |
| 74-09-10 | 17 | 14 | 15 | 11 | .1 | -- | 1.3 | -- | .00 | -- | .01 | -- |
| 74-09-12 | 9 | 7 | 33 | 16 | .1 | -- | 4.0 | -- | .00 | -- | .04 | -- |
| 74-08-05 | 2 | 2 | 45 | 19 | .1 | -- | 6.1 | -- | .00 | -- | .05 | -- |
| 74-07-26 | 6 | 5 | 55 | 20 | .1 | -- | 10 | -- | .01 | -- | .01 | -- |

| DATE OF SAMPLE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 74-04-11 | .00 | .02 | 101 | 36 | 21 | 183 | 6.2 | 11.0 | -- | .0 |
| 74-09-19 | -- | -- | 44 | 8 | 0 | 70 | 6.9 | 15.0 | -- | .0 |
| 74-07-23 | -- | -- | 441 | 320 | 320 | >1000 | 5.6 | 11.0 | 1.8 | .1 |
| 74-06-10 | -- | .01 | 374 | 250 | 240 | 615 | 5.3 | 11.0 | .2 | .1 |
| 74-08-11 | -- | -- | 273 | 140 | 140 | 525 | 5.9 | 12.0 | 3.0 | .1 |
| 74-06-28 | -- | -- | 265 | 190 | 180 | 670 | 5.9 | 11.0 | 3.3 | -- |
| 74-07-09 | -- | -- | 114 | 57 | 0 | 180 | 7.8 | 13.5 | 1.6 | .0 |
| 74-08-07 | -- | -- | 41 | 14 | 2 | 90 | 6.5 | 13.0 | -- | .0 |
| 74-07-12 | -- | -- | 163 | 83 | 80 | 320 | 5.3 | 11.0 | .3 | .0 |
| 74-07-09 | -- | -- | 332 | 200 | 190 | 620 | 5.3 | 11.0 | .4 | .0 |
| 74-06-24 | -- | .01 | 187 | 120 | 110 | 310 | 5.4 | 10.0 | -- | .1 |
| 74-06-25 | -- | -- | 74 | 36 | 32 | 155 | 5.8 | 11.0 | 1.2 | .0 |
| 74-06-20 | -- | .01 | 109 | 59 | 56 | 250 | 5.8 | 10.0 | .3 | .1 |
| 74-07-30 | -- | -- | 403 | 270 | 270 | 900 | 5.6 | 11.0 | .5 | .1 |
| 74-07-25 | -- | -- | 321 | 250 | 250 | 1000 | 5.8 | 11.0 | .5 | .1 |
| 74-08-04 | -- | -- | 41 | 15 | 13 | 85 | 5.8 | 10.5 | 2.1 | .0 |
| 74-09-10 | -- | -- | 71 | 35 | 21 | 120 | 6.2 | 10.5 | 4.0 | .0 |
| 74-09-12 | -- | -- | 93 | 58 | 51 | 195 | 6.0 | 11.5 | 4.5 | .0 |
| 74-08-05 | -- | -- | 106 | 83 | 81 | 250 | 5.4 | 10.5 | 2.6 | .1 |
| 74-07-26 | -- | -- | 139 | 92 | 87 | 315 | 5.6 | 11.0 | .5 | .1 |

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

LONG ISLAND--Continued

SUFFOLK COUNTY--Continued

| STATION NUMBER | LOCAL IDENT-I-FIER | | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | DIS-SOLVED CAL-CIUM (CA) (MG/L) | DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) | DIS-SOLVED SODIUM (NA) (MG/L) | DIS-SOLVED PO-TAS-SIUM (K) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 405634072380501 | S 51588 | AC | 74-07-31 | 7.2 | 50 | 0 | 78 | 11 | 9.8 | 3.4 |
| 405418072470601 | S 51591 | | 74-05-30 | 5.0 | 1400 | 90 | -- | -- | -- | -- |
| 405349072494101 | S 51592 | ABC | 74-07-18 | 6.5 | 130 | 10 | 4.5 | 1.6 | 9.5 | 1.0 |
| 405745072455701 | S 51828 | | 74-06-17 | 9.8 | 70 | 0 | 28 | 9.8 | 9.4 | 2.0 |
| 410400072202001 | S 52050 | ABC | 74-06-13 | 11 | 380 | 130 | -- | -- | -- | -- |
| 410516072200901 | S 52084 | ABC | 74-06-11 | 15 | 140 | 50 | -- | -- | -- | -- |
| 404357072515701 | S 52162 | | 74-07-22 | 7.9 | 570 | 0 | .2 | .1 | 14 | 1.6 |
| 404357072515702 | S 52163 | | 74-07-25 | 8.6 | 870 | 10 | .5 | .2 | 25 | 4.5 |
| 404357072515703 | S 52164 | | 74-07-25 | 8.4 | 920 | 30 | .4 | .6 | 12 | 4.7 |
| 405542072445301 | S 52383 | | 74-06-28 | 4.5 | 0 | 170 | 11 | 1.7 | 5.5 | 5.7 |
| 405512072395202 | S 52449 | ABC | 74-07-10 | 12 | 20 | 0 | 14 | 3.8 | 34 | 1.8 |
| 405912072220701 | S 52657 | | 74-04-10 | 10 | 38000 | 90 | 3.5 | 2.0 | 9.5 | .7 |
| 405411072261901 | S 52658 | | 74-04-10 | 9.5 | 12000 | 20 | 3.0 | 2.7 | 7.0 | .6 |
| 405434072204001 | S 52666 | | 74-04-11 | 3.0 | 1400 | 30 | 5.5 | 1.0 | 3.0 | 2.0 |
| 405554072200101 | S 52669 | | 74-04-11 | 8.3 | 1400 | 600 | 37 | 9.0 | 12 | 10 |
| 405503072165001 | S 52679 | | 74-04-10 | 5.8 | 420 | 20 | 25 | 4.7 | 15 | 4.6 |
| 405600072150001 | S 52683 | | 74-04-10 | 7.1 | 460 | 40 | 26 | 6.6 | 10 | 11 |
| 405632072115601 | S 52686 | | 74-04-10 | 7.7 | 950 | 110 | 16 | 5.0 | 14 | 2.7 |

| DATE OF SAMPLE | BICAR-BONATE (HCO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | DIS-SOLVED FLUO-RIDE (F) (MG/L) | TOTAL NITRATE (N) (MG/L) | DIS-SOLVED NITRATE (N) (MG/L) | TOTAL NITRITE (N) (MG/L) | DIS-SOLVED NITRITE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L) | TOTAL ORGANIC NITRO-GEN (N) (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-07-31 | 7 | 6 | 160 | 32 | .1 | -- | 11 | -- | .00 | -- | .01 | -- |
| 74-05-30 | 17 | 14 | 13 | 5.6 | -- | .19 | -- | .01 | -- | .33 | -- | .09 |
| 74-07-18 | 1 | 1 | 13 | 14 | .0 | -- | .45 | -- | .01 | -- | .01 | -- |
| 74-06-17 | 14 | 11 | 77 | 17 | .1 | 1.8 | -- | .00 | .00 | .02 | -- | -- |
| 74-06-13 | 29 | 24 | 17 | 20 | -- | -- | -- | -- | -- | -- | -- | -- |
| 74-06-11 | 19 | 16 | 17 | 14 | -- | -- | -- | -- | -- | -- | -- | -- |
| 74-07-22 | 26 | 21 | 5.4 | 13 | .2 | .01 | .00 | .00 | .01 | .11 | -- | .00 |
| 74-07-25 | 47 | 51 | 9.6 | 7.1 | .1 | .01 | .01 | .02 | .01 | .05 | -- | -- |
| 74-07-25 | 25 | 27 | 7.3 | 5.3 | .1 | .00 | .00 | .01 | .01 | .04 | -- | -- |
| 74-06-28 | 0 | 0 | 20 | 7.5 | .5 | -- | 4.7 | -- | .00 | -- | .02 | -- |
| 74-07-10 | 24 | 20 | 31 | 18 | .1 | -- | 2.8 | -- | .01 | -- | -- | -- |
| 74-04-10 | 18 | 15 | 6.5 | 12 | .0 | .38 | -- | .01 | -- | .00 | -- | .00 |
| 74-04-10 | 16 | 13 | 8.2 | 10 | .2 | .54 | -- | .01 | -- | .01 | -- | .02 |
| 74-04-11 | 8 | 7 | 9.7 | 4.1 | .1 | 1.1 | -- | .01 | -- | .02 | -- | .06 |
| 74-04-11 | 11 | 9 | 78 | 27 | .1 | 14 | -- | .01 | -- | .04 | -- | .09 |
| 74-04-10 | 27 | 22 | 41 | 29 | .0 | 5.3 | -- | .01 | -- | .09 | -- | .17 |
| 74-04-10 | 9 | 7 | 47 | 26 | .1 | 10 | -- | .01 | -- | .01 | -- | -- |
| 74-04-10 | 12 | 10 | 27 | 22 | .1 | 6.0 | -- | .01 | -- | .00 | -- | .00 |

| DATE OF SAMPLE | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) | HARD-NESS (CA,MG) (MG/L) | NON-CAR-BONATE HARD-NESS (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TOTAL ORGANIC CARBON (C) (MG/L) | METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 74-07-31 | -- | -- | -- | 354 | 240 | 230 | 850 | 5.7 | 11.0 | 14 | .1 |
| 74-05-30 | .42 | .62 | .01 | -- | -- | -- | 100 | 5.8 | 10.5 | -- | .0 |
| 74-07-18 | -- | -- | -- | 51 | 18 | 17 | 135 | 5.6 | 11.0 | .3 | .0 |
| 74-06-17 | -- | -- | .02 | 188 | 110 | 99 | 315 | 6.3 | 11.0 | .5 | .1 |
| 74-06-13 | -- | -- | -- | -- | -- | -- | 320 | 5.7 | 13.0 | 1.2 | .1 |
| 74-06-11 | -- | -- | -- | -- | -- | -- | 160 | 6.1 | 11.5 | .3 | .0 |
| 74-07-22 | .06 | .07 | .05 | 55 | 1 | 0 | 90 | 7.2 | 22.0 | -- | .0 |
| 74-07-25 | .04 | .07 | .08 | 79 | 2 | 0 | 110 | 6.7 | 18.0 | -- | .0 |
| 74-07-25 | .02 | .03 | .03 | 51 | 3 | 0 | 110 | 6.4 | 16.0 | -- | .0 |
| 74-06-28 | -- | -- | -- | 77 | 34 | 34 | 185 | 4.6 | 10.5 | 1.0 | .1 |
| 74-07-10 | -- | -- | -- | 139 | 51 | 31 | 245 | 6.2 | 13.5 | 2.2 | .0 |
| 74-04-10 | .00 | .39 | .02 | 55 | 17 | 2 | 95 | 4.4 | 11.0 | -- | .0 |
| 74-04-10 | .03 | .58 | .01 | 49 | 19 | 5 | 85 | 5.8 | 11.0 | -- | .0 |
| 74-04-11 | .08 | 1.2 | .01 | 32 | 18 | 11 | 75 | 6.0 | 10.0 | -- | .0 |
| 74-04-11 | .13 | 14 | .01 | 187 | 130 | 120 | 393 | 5.5 | 11.0 | -- | .1 |
| 74-04-10 | .26 | 5.6 | .01 | 138 | 82 | 68 | 285 | 5.5 | 11.0 | -- | .1 |
| 74-04-10 | .00 | 10 | .01 | 138 | 92 | 85 | 325 | 5.2 | 10.0 | -- | .1 |
| 74-04-10 | .00 | 6.0 | .01 | 109 | 61 | 51 | 208 | 5.6 | 11.0 | -- | .1 |

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SUSQUEHANNA RIVER BASIN

CORTLAND COUNTY

| STATION NUMBER | DATE OF SAMPLE | DIS-SOLVED SILICA (SIO2) (MG/L) | TOTAL IRON (FE) (UG/L) | TOTAL MAN-GANESE (MN) (UG/L) | BICAR-BONATE (HCO3) (MG/L) | CAR-BONATE (CO3) (MG/L) | ALKA-LINITY AS CACO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLO-RIDE (CL) (MG/L) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 423835076112301 | 74-06-13 | .2 | 8400 | 90 | 32 | 0 | 26 | 21 | 8.8 | 152 | 6.7 |
| | 74-08-27 | 4.7 | 5200 | 280 | 144 | 0 | 118 | 18 | 9.3 | 245 | 7.8 |
| 424109076100201 | 74-08-27 | 5.0 | 530 | 20 | 118 | 0 | 97 | 14 | 3.7 | 260 | 7.7 |
| 424112076092101 | 74-08-27 | 4.4 | 3100 | 90 | 128 | 0 | 105 | 18 | 56 | 730 | 7.4 |
| 424114076101001 | 74-08-27 | 4.6 | 1900 | 60 | 101 | 0 | 83 | 14 | 11 | 310 | 7.3 |
| 424306076082201 | 74-08-27 | 5.2 | 1100 | 8400 | 225 | 0 | 187 | 22 | 21 | 680 | 7.4 |

| DATE OF SAMPLE | TEMPER-ATURE (DEG C) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) |
|---|---|---|---|---|
| 74-06-13 | 1.1 | 75 | B20 | 7 |
| 74-08-27 | 20.0 | B4500 | B7 | 110 |
| 74-08-27 | 16.0 | 100 | B3 | B9 |
| 74-08-27 | 15.0 | 210 | B1 | B12 |
| 74-08-27 | 16.0 | 450 | B2 | B11 |
| 74-08-27 | 15.0 | 320 | B1 | 28 |

B Results based on colony count outside the acceptable range (non-ideal colony count).

# MINOR ELEMENT ANALYSES OF GROUND WATER IN NEW YORK

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Note: See table of Chemical Analyses of Ground Water in New York for additional analyses on each sample reported below.

LONG ISLAND

SUFFOLK COUNTY

| LOCAL IDENT-I-FIER | DATE OF SAMPLE | TOTAL ARSENIC (AS) (UG/L) | TOTAL CAD-MIUM (CD) (UG/L) | TOTAL CHRO-MIUM (CR) (UG/L) | TOTAL COBALT (CO) (UG/L) | TOTAL COPPER (CU) (UG/L) | TOTAL LEAD (PB) (UG/L) | TOTAL MERCURY (HG) (UG/L) | TOTAL SELE-NIUM (SE) (UG/L) | TOTAL ZINC (ZN) (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| S 1807 | 73-11-30 | 2 | 0 | 10 | 0 | 50 | 3 | <.5 | 0 | 300 |
| S 4845 | 73-10-16 | 0 | 1 | 0 | 1 | 10 | 4 | 1.0 | -- | 200 |
| S 10222 | 73-10-16 | 0 | 0 | <10 | 0 | 880 | 5 | 5.9 | -- | 150 |
| S 10373 | 73-11-08 | 1 | 0 | <10 | 0 | 120 | 0 | 1.0 | -- | 50 |
| S 17464 | 73-11-20 | <1 | 0 | 0 | 0 | 20 | 0 | -- | -- | 50 |
| S 17807 | 73-10-16 | <1 | 0 | <10 | 0 | 10 | 1 | .6 | -- | 50 |
| S 21900 | 73-12-04 | <1 | 0 | <10 | 0 | 10 | 2 | <.5 | 1 | 0 |
| S 43815 | 73-11-21 | <1 | 0 | 0 | -- | 10 | 1 | -- | -- | 20 |
| S 43816 | 73-11-21 | <1 | 0 | 0 | 0 | 0 | 5 | -- | -- | 50 |
| S 43817 | 73-12-04 | 1 | 0 | 0 | 0 | 0 | 0 | <.5 | <1 | 30 |
| S 43818 | 73-12-06 | <1 | 0 | 0 | 0 | 0 | 4 | 1.0 | <1 | 10 |
| S 43819 | 73-12-03 | 0 | 0 | 10 | 0 | 10 | 4 | 1.9 | <1 | 0 |
| S 43822 | 73-12-10 | <1 | 0 | 0 | 0 | 10 | 0 | 1.6 | 2 | 10 |
| S 45594 | 73-12-10 | 0 | 0 | 0 | 0 | 0 | 11 | .7 | 1 | 10 |
| S 48426 | 74-05-20 | 0 | 0 | 10 | 0 | 10 | 0 | -- | 1 | 60 |
| S 48427 | 74-05-20 | 0 | 1 | 20 | 0 | 10 | 4 | -- | 0 | 260 |
| S 48432 | 74-05-15 | 0 | 0 | 0 | 0 | 0 | 2 | -- | 1 | 460 |
| S 48433 | 74-05-15 | 0 | 1 | 0 | 0 | 10 | 2 | -- | 1 | 30 |
| S 48434 | B 73-10-14 | <1 | 0 | 0 | 0 | 0 | 0 | -- | -- | 10 |
| S 48435 | B 73-10-02 | 0 | 0 | <10 | 1 | 10 | 0 | -- | -- | 10 |
| S 48436 | B 73-10-15 | <1 | 1 | 0 | 0 | 0 | 0 | -- | -- | 10 |
| S 48441 | B 73-10-01 | 0 | 0 | 10 | 0 | 10 | 0 | -- | -- | 30 |
| S 48442 | B 73-10-10 | 0 | 1 | <10 | 1 | 10 | 1 | -- | -- | 10 |
| S 48517 | 74-05-15 | 0 | 0 | 10 | 0 | 0 | 5 | -- | <1 | 70 |
| S 48518 | 74-05-15 | 0 | 0 | 20 | 0 | 0 | 2 | -- | 1 | 100 |
| S 48521 | 74-05-15 | 0 | 0 | 0 | 0 | 10 | 1 | -- | 0 | 50 |
| S 48579 | B 73-10-11 | <1 | 0 | 0 | 3 | 10 | 0 | -- | -- | 10 |
| S 48581 | B 73-10-01 | <1 | 0 | <10 | 0 | 10 | 0 | -- | -- | 20 |
| S 48582 | BC 73-10-02 | 0 | 0 | 10 | 0 | 0 | 1 | -- | -- | 10 |
| S 48583 | BC 73-10-03 | 1 | 0 | 0 | 10 | 0 | 0 | -- | -- | 10 |
| S 48584 | B 73-10-03 | <1 | 0 | 0 | 1 | 10 | 0 | -- | -- | 10 |
| S 49848 | B 73-10-10 | <1 | 0 | 0 | 1 | 10 | 1 | -- | -- | 20 |
| S 51170 | 74-02-28 | <1 | 0 | 0 | 0 | 10 | 0 | -- | 1 | 40 |
| S 51171 | 74-03-08 | 1 | 0 | <10 | 1 | 0 | 2 | -- | 2 | 100 |
| S 51173 | C 74-04-23 | 1 | 0 | 10 | 1 | 0 | 2 | -- | 0 | 120 |
| S 51174 | 74-03-08 | 1 | 0 | 0 | 1 | 0 | 4 | -- | 3 | 230 |
| S 51175 | 74-03-06 | 1 | 0 | -- | 0 | 0 | 0 | -- | 1 | 150 |
| S 51176 | 74-03-05 | 1 | 0 | 0 | 0 | 0 | 2 | -- | 1 | 480 |
| S 51177 | 74-02-28 | <1 | 0 | 0 | 0 | 0 | 0 | -- | 1 | 20 |
| S 51178 | 74-06-12 | <1 | 0 | <10 | 3 | 10 | 1 | -- | <1 | 160 |
| S 51180 | 74-03-04 | <1 | 0 | -- | 0 | 0 | 3 | -- | 3 | 40 |
| S 51181 | 74-03-01 | 1 | 0 | 0 | 0 | 10 | 0 | -- | <1 | 90 |
| S 51182 | 74-02-28 | <1 | 0 | 0 | 0 | 0 | 0 | -- | 3 | 17 |
| S 51183 | B 74-03-12 | 0 | 0 | 0 | 1 | 0 | 0 | -- | 3 | 50 |
| S 51184 | 74-03-01 | 1 | 1 | 0 | 0 | 0 | 0 | -- | <1 | 70 |
| S 51185 | 74-03-01 | <1 | 0 | 0 | 0 | 0 | 0 | -- | 1 | 10 |
|  | 74-05-20 | 0 | 0 | 20 | 0 | 0 | 0 | -- | 1 | 230 |
| S 51566 | BC 74-07-23 | 0 | 1 | 0 | 0 | 10 | 0 | -- | <1 | 170 |
| S 51567 | 74-06-10 | 1 | 0 | 0 | 0 | 10 | 3 | -- | 0 | 370 |
| S 51568 | BC 74-08-11 | 2 | 0 | 0 | 0 | 0 | 4 | -- | 3 | 10 |
| S 51571 | BC 74-06-20 | 2 | 0 | 10 | 0 | 0 | 1 | -- | 2 | 10 |
| S 51573 | BC 74-07-09 | 2 | 0 | 0 | 1 | 10 | 0 | -- | 0 | 0 |
| S 51575 | BC 74-08-07 | 1 | 0 | 0 | 0 | 10 | 0 | -- | 0 | 0 |
| S 51576 | BC 74-07-12 | 1 | 0 | 0 | 0 | 0 | 5 | -- | 1 | 10 |
| S 51579 | BC 74-06-25 | 1 | 0 | <10 | 0 | 0 | 3 | -- | 1 | 20 |
| S 51581 | C 74-07-30 | 0 | 0 | 0 | 0 | 0 | 6 | -- | 3 | 150 |
| S 51582 | C 74-07-25 | 0 | 0 | 10 | 0 | 0 | 2 | -- | 2 | 30 |
| S 51583 | BC 74-08-04 | 0 | 0 | 0 | 0 | 0 | 0 | -- | 0 | 20 |
| S 51584 | BC 74-09-10 | 0 | 0 | 0 | 0 | 0 | 2 | -- | 2 | 20 |
| S 51585 | BC 74-09-12 | 0 | 0 | <10 | 0 | 10 | 1 | -- | 3 | 0 |
| S 51586 | BC 74-08-05 | 1 | 0 | 0 | 0 | 0 | 0 | -- | 0 | 40 |
| S 51587 | BC 74-07-26 | 0 | 0 | 0 | 0 | 0 | 4 | -- | 2 | 80 |
| S 51588 | C 74-07-31 | 0 | 0 | 0 | 0 | 0 | 3 | -- | 0 | 30 |
| S 51592 | BC 74-07-18 | 0 | 0 | 0 | 0 | 10 | 1 | -- | <1 | 790 |
| S 52050 | BC 74-06-13 | 0 | 0 | 0 | 2 | 10 | 1 | -- | 2 | 440 |
| S 52084 | BC 74-06-11 | 1 | 0 | 0 | 1 | 10 | 0 | -- | 1 | 150 |
| S 52449 | BC 74-07-10 | 2 | 0 | 10 | 0 | 10 | 4 | -- | <1 | 40 |

B - Additional analyses in Radiochemical analyses of ground waters in New York.

C - Additional analyses in Pesticide analyses of ground waters in New York.

## PESTICIDE ANALYSES OF GROUND WATER IN NEW YORK

### WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Note: See tables of Chemical Analyses and Minor Element Analyses of Ground Water in New York for additional analyses on each sample reported below.

LONG ISLAND

SUFFOLK COUNTY

| LOCAL IDENT-I-FIER | DATE OF SAMPLE | ALDRIN (UG/L) | CHLOR-DANE (UG/L) | DDD (UG/L) | DDE (UG/L) | DDT (UG/L) | DI-AZINON (UG/L) | DI-ELDRIN (UG/L) | ENDRIN (UG/L) | ETHION (UG/L) | HEPTA-CHLOR (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S 48582 | B 73-10-02 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | -- | .00 |
| S 48583 | B 73-10-03 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | -- | .00 |
| S 51173 | 74-04-23 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51179 | 74-04-23 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51566 | B 74-07-23 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51568 | B 74-08-11 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 32449 | B 74-07-10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S 51571 | B 74-06-28 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51573 | B 74-07-09 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51575 | B 74-08-07 | .00 | .3 | 0.1 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51576 | B 74-07-12 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51579 | B 74-06-25 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51581 | 74-07-30 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51582 | 74-07-25 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51583 | B 74-08-04 | .00 | .0 | .00 | .00 | .00 | .00 | .01 | .00 | .00 | .00 |
| S 51584 | B 74-09-10 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51585 | B 74-09-12 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51586 | B 74-08-05 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51587 | B 74-07-26 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51588 | 74-07-31 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 51592 | B 74-07-18 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 52050 | B 74-06-13 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| S 52084 | B 74-06-11 | .00 | .0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |

| DATE OF SAMPLE | HEPTA-CHLOR EPOXIDE (UG/L) | LINDANE (UG/L) | MALA-THION (UG/L) | METHYL PARA-THION (UG/L) | METHYL TRI-THION (UG/L) | PARA-THION (UG/L) | PCB (UG/L) | TOX-APHENE (UG/L) | TRI-THION (UG/L) | 2,4-D (UG/L) | 2,4,5-T (UG/L) | SILVEX (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73-10-02 | .00 | .00 | .00 | .00 | -- | .00 | .0 | -- | -- | -- | -- | -- |
| 73-10-03 | .00 | .00 | .00 | .00 | -- | .00 | .0 | -- | -- | -- | -- | -- |
| 74-04-23 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-04-23 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-23 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-08-11 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | .00 | .00 | .00 |
| 74-06-28 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-09 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-08-07 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-12 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-06-25 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-30 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-25 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-08-04 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-09-10 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-09-12 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-08-05 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-26 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-31 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-07-18 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-06-13 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |
| 74-06-11 | .00 | .00 | .00 | .00 | .00 | .00 | .0 | 0 | .00 | .00 | .00 | .00 |

B – Additional analyses in Radiochemical analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Note: See tables of Chemical Analyses and Minor Element Analyses of Ground Water in New York for additional analyses on each sample reported below.

LONG ISLAND

SUFFOLK COUNTY

| LOCAL IDENT-I-FIER | DATE OF SAMPLE | DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) | DIS-SOLVED GROSS BETA AS CS-137 (PC/L) | DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) | TOTAL FILT-RABLE RESIDUE (MG/L) | DIS-SOLVED RA-226 (RADON METHOD) (PC/L) |
|---|---|---|---|---|---|---|
| S 48434 | 73-10-14 | 1.7 | 1.8 | 1.5 | 70 | -- |
| S 48435 | 73-10-02 | 6.9 | 8.9 | 7.0 | 150 | -- |
| S 48436 | 73-10-15 | 1.2 | .6 | .5 | 35 | -- |
| S 48441 | 73-10-01 | 5.8 | 3.7 | 3.0 | 230 | 56 |
| S 48442 | 73-10-10 | 3.3 | 12 | 9.6 | 150 | -- |
| S 48579 | 73-10-11 | 1.6 | 3.2 | 2.6 | 150 | -- |
| S 48581 | 73-10-01 | 2.7 | 2.3 | 1.9 | 40 | -- |
| S 48582 | C 73-10-02 | <.7 | 1.0 | .8 | 45 | -- |
| S 48583 | C 73-10-03 | 1.4 | 1.0 | .8 | 30 | -- |
| S 48584 | 73-10-03 | 1.0 | 1.3 | 1.1 | 34 | -- |
| S 49098 | 73-10-10 | 1.8 | 2.8 | 2.4 | 50 | -- |
| S 51183 | 74-03-12 | 2.9 | 2.1 | 1.7 | 73 | -- |
| S 51566 | C 74-07-23 | <10 | 7.3 | 6.4 | 690 | -- |
| S 51568 | C 74-08-11 | <1.1 | 5.5 | 4.4 | 110 | -- |
| S 52449 | C 74-07-10 | <1.9 | 2.6 | 2.1 | 140 | -- |
| S 51571 | C 74-06-28 | <3.4 | 3.3 | 2.7 | 420 | -- |
| S 51573 | C 74-07-09 | <1.3 | 1.0 | .8 | 120 | -- |
| S 51575 | C 74-08-07 | 10 | 3.6 | 2.9 | 45 | -- |
| S 51576 | C 74-07-12 | 3.1 | 6.5 | 5.2 | 190 | -- |
| S 51579 | C 74-06-25 | <1.3 | 1.4 | 1.1 | 96 | -- |
| S 51583 | C 74-08-04 | <.4 | .9 | .7 | 48 | -- |
| S 51584 | C 74-09-10 | <1.1 | .9 | .7 | 81 | -- |
| S 51585 | C 74-09-12 | <1.5 | 1.3 | 1.0 | 140 | -- |
| S 51586 | C 74-08-05 | 1.3 | 1.9 | 1.5 | 160 | -- |
| S 51587 | C 74-07-26 | <4.1 | 17 | 14 | 250 | -- |
| S 51592 | C 74-07-18 | 2.9 | 3.5 | 2.8 | 61 | -- |
| S 52050 | C 74-06-13 | <2.3 | 1.2 | 1.0 | 280 | -- |
| S 52084 | C 74-06-11 | <2.0 | 1.6 | 1.3 | 150 | -- |

C - Additional analyses in Pesticide analyses of ground waters in New York.

## LONG ISLAND

### AT MINEOLA, N.Y.

**LOCATION.**--Lat 40°44'17", long 73°38'17", Nassau County, at National Weather Service Station Mineola 1W on roof of U.S. Geological Survey office, at 1505 Kellum Place, in Mineola.

**RECORDS AVAILABLE.**--Chemical analyses; October 1965 to September 1974 (monthly composite).

**EQUIPMENT.**--The sample collector is a straight-sided glass funnel approximately 5.0 in (127 mm) in diameter which drains into a 4-litre glass receiving bottle. A glass wool filter is used to prevent large particles of debris from entering the receiving bottle. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 25 ft (8 m) above ground level.

**REMARKS.**--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

**REVISIONS.**--Revised figures for Specific Conductance, Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:
72-01-03 to 72-02-01 Specific Conductance 36 micromhos.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) | Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/1) |
|---|---|---|---|---|---|
| 71-10-01 TO 71-11-01 | 0.22 | 0.40 | 72-04-03 TO 72-05-01 | 0.42 | 0.73 |
| 71-11-01 TO 71-12-01 | .38 | .30 | 72-05-01 TO 72-06-01 | .42 | .60 |
| 71-12-01 TO 72-01-03 | .44 | .88 | 72-06-01 TO 72-07-03 | .42 | .70 |
| 72-01-03 TO 72-02-01 | .70 | .72 | 72-07-03 TO 72-08-01 | 3.4 | .80 |
| 72-02-01 TO 72-03-01 | .27 | .70 | 72-08-01 TO 72-09-01 | -- | 1.4 |
| 72-03-01 TO 72-04-03 | .47 | .82 | 72-09-01 TO 72-10-02 | -- | .80 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPITATION | CALCIUM (CA) (MG/L) | MAGNESIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-01-73 | 1.97 | 1.6 | .8 | 2.7 | .2 | 2 | 2.3 |
| 11-01-73 TO 12-01-73 | 1.70 | 2.0 | .9 | .4 | .2 | 1 | 4.6 |
| 12-01-73 TO 01-02-74 | 8.38 | .6 | .5 | 1.5 | .2 | 1 | 2.6 |
| 01-02-74 TO 02-01-74 | 3.40 | 2.0 | 1.0 | 1.2 | .1 | 2 | 5.7 |
| 02-01-74 TO 03-01-74 | 1.73 | 7.0 | 2.0 | 4.2 | .2 | 5 | 8.4 |
| 03-01-74 TO 04-01-74 | 4.88 | 1.8 | .7 | 1.0 | .2 | 5 | 4.1 |
| 04-01-74 TO 05-01-74 | 2.94 | 2.1 | .8 | .1 | .0 | 9 | 5.2 |
| 05-01-74 TO 06-01-74 | 3.84 | 1.5 | .3 | .7 | .0 | 7 | 6.5 |
| 06-01-74 TO 07-01-74 | 1.83 | 2.0 | .6 | .7 | .0 | 0 | 8.9 |
| 07-01-74 TO 08-01-74 | .82 | 4.1 | 1.3 | .7 | .0 | 0 | 8.7 |
| 08-01-74 TO 09-01-74 | 5.05 | 1.0 | .4 | .2 | .0 | 1 | 3.4 |
| 09-01-74 TO 10-01-74 | 5.72 | .6 | .2 | .1 | .0 | 1 | 1.8 |

| PERIOD OF COLLECTION | CHLORIDE (CL) (MG/L) | FLUORIDE (F) (MG/L) | NITRITE+ NITRATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOSPHOROUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-01-73 | 4.6 | .3 | .50 | .27 | -- | 26 | 6.3 |
| 11-01-73 TO 12-01-73 | 1.4 | .3 | 1.10 | .78 | -- | 34 | 5.8 |
| 12-01-73 TO 01-02-74 | 3.6 | .2 | .31 | .58 | -- | 27 | 5.8 |
| 01-02-74 TO 02-01-74 | 3.1 | .1 | .74 | --- | -- | 38 | 6.3 |
| 02-01-74 TO 03-01-74 | 8.8 | -- | 1.50 | --- | -- | 76 | 6.7 |
| 03-01-74 TO 04-01-74 | 1.8 | -- | .57 | --- | -- | 26 | 6.2 |
| 04-01-74 TO 05-01-74 | 1.8 | .1 | .58 | --- | -- | 32 | 5.5 |
| 05-01-74 TO 06-01-74 | 2.0 | .0 | .86 | --- | -- | 49 | 3.7 |
| 06-01-74 TO 07-01-74 | 1.5 | .1 | .99 | --- | -- | 63 | 3.4 |
| 07-01-74 TO 08-01-74 | 1.2 | .2 | --- | --- | .06 | 44 | - |
| 08-01-74 TO 09-01-74 | .7 | .1 | .54 | .21 | .03 | 22 | 4.3 |
| 09-01-74 TO 10-01-74 | 1.5 | .1 | .31 | .12 | .01 | 17 | 4.6 |

## LONG ISLAND

## AT UPTON, N.Y.

**LOCATION.**--Lat 40°52'16", long 72°53'20", Suffolk County, at National Weather Service Station at Brookhaven National Laboratory weather tower about 2 mi (3.2 km) east of main entrance, at Upton.

**RECORDS AVAILABLE.**--Chemical analyses: August 1965 to September 1973 (monthly composite) (discontinued).

**EQUIPMENT.**--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

**REMARKS.**--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

**REVISIONS.**--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|
| 71-09-30 TO 71-11-02 | 0.04 | 0.25 |
| 71-11-02 TO 71-11-30 | .11 | .28 |
| 71-11-30 TO 72-01-03 | .16 | .49 |
| 72-01-03 TO 72-02-02 | .17 | .50 |
| 72-02-02 TO 72-02-29 | .09 | .38 |
| 72-02-29 TO 72-03-31 | .25 | .45 |
| 72-03-31 TO 72-04-28 | 0.23 | 0.67 |
| 72-04-28 TO 72-05-31 | .03 | .15 |
| 72-05-31 TO 72-06-30 | .18 | .28 |
| 72-06-30 TO 72-07-31 | .11 | .18 |
| 72-07-31 TO 72-08-31 | .05 | .20 |
| 72-08-31 TO 72-09-29 | .00 | .16 |

## CHEMICAL QUALITY OF PRECIPITATION

### HUDSON RIVER BASIN

### AT ROCK HILL, N.Y.

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mi (1.4 km) east of Rock Hill, and 3.5 mi (5.6 km) northwest of National Weather Service Station Rock Hill 3SW and 6.5 mi (10.5 km) southeast of Monticello.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|
| 71-11-03 TO 71-12-0[illegible] | 0.14 | 0.42 |
| 71-12-05 TO 71-12-31 | .15 | .54 |
| 71-12-31 TO 72-02-08 | .08 | .74 |
| 72-02-08 TO 72-03-02 | .08 | .52 |
| 72-03-02 TO 72-04-03 | .26 | .60 |
| 72-04-03 TO 72-05-02 | .16 | .61 |
| 72-05-02 TO 72-06-02 | 0.05 | 0.01 |
| 72-06-02 TO 72-07-02 | .07 | .27 |
| 72-07-02 TO 72-08-01 | .05 | .14 |
| 72-08-01 TO 72-09-02 | .05 | .66 |
| 72-09-02 TO 72-10-04 | .12 | .45 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPITATION | CALCIUM (CA) (MG/L) | MAGNESIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-01-73 | 3.46 | .5 | .1 | .5 | 3.7 | 0 | 5.5 |
| 11-01-73 TO 12-03-73 | 2.80 | 1.7 | .8 | 2.0 | 3.1 | 5 | 9.3 |
| 12-03-73 TO 01-02-74 | 10.33 | .4 | .2 | .4 | .6 | 0 | 2.2 |
| 02-03-74 TO 03-04-74 | 2.78 | 1.0 | .3 | .1 | .2 | 0 | 4.5 |
| 03-04-74 TO 04-05-74 | 5.64 | 1.0 | .2 | .5 | .2 | 0 | 2.3 |
| C4-05-74 TO 05-01-74 | 2.46 | 1.8 | .5 | .4 | .4 | 0 | 5.7 |
| 05-01-74 TO 06-01-74 | 4.76 | 2.0 | .8 | .4 | .8 | 1 | 5.7 |
| 06-01-74 TO 07-01-74 | 4.29 | .6 | .1 | .0 | .5 | 0 | 5.8 |
| 07-01-74 TO 08-01-74 | 5.05 | .1 | .0 | .0 | .4 | 0 | 7.4 |
| 08-01-74 TO 09-04-74 | 6.98 | .3 | .1 | .0 | .0 | 0 | 2.9 |
| 09-04-74 TO 10-01-74 | 4.09 | 3.4 | 1.7 | .0 | .0 | 0 | 2.8 |

| PERIOD OF COLLECTION | CHLORIDE (CL) (MG/L) | FLUORIDE (F) (MG/L) | NITRITE+NITRATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOSPHOROUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-01-73 | 2.0 | -- | .01 | .13 | -- | 20 | 5.3 |
| 11-01-73 TO 12-03-73 | 3.1 | -- | .02 | .54 | -- | 48 | 5.7 |
| 12-03-73 TO 01-02-74 | .9 | -- | .21 | .04 | .01 | 12 | 5.0 |
| 02-03-74 TO 03-04-74 | .4 | -- | .41 | .14 | -- | 24 | 4.4 |
| 03-04-74 TO 04-05-74 | .5 | -- | .37 | .11 | -- | 20 | 4.4 |
| 04-05-74 TO 05-01-74 | 1.5 | .2 | .81 | .15 | .09 | 34 | 4.5 |
| 05-01-74 TO 06-01-74 | 2.2 | .1 | .04 | .02 | .03 | 24 | 5.5 |
| 06-01-74 TO 07-01-74 | .3 | .0 | .29 | .07 | .02 | 34 | 4.2 |
| 07-01-74 TO 08-01-74 | .3 | .1 | .72 | .34 | .02 | 59 | 3.8 |
| 08-01-74 TO 09-04-74 | .4 | .4 | .45 | .12 | .00 | 32 | 4.8 |
| 09-04-74 TO 10-01-74 | 7.4 | .1 | .43 | .04 | .01 | 32 | 4.2 |

## HUDSON RIVER BASIN

### NEAR ALBANY, N.Y.

**LOCATION.**--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service Station at Albany Municipal Airport, 0.5 mi (0.8 km) north of new State Highway 155.

**RECORDS AVAILABLE.**--Chemical analyses: August 1965 to September 1974 (monthly composite).

**EQUIPMENT.**--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft above ground level and is protected by a windshield.

**REMARKS.**--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

**REVISIONS.**--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) | Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|---|---|---|
| 71-09-30 TO 71-11-01 | 0.01 | 0.10 | 72-04-01 TO 72-04-30 | 0.57 | 0.83 |
| 71-11-01 TO 71-12-01 | .32 | .62 | 72-04-30 TO 72-06-30 | .07 | .37 |
| 71-12-01 TO 71-12-31 | .06 | .71 | 72-06-30 TO 72-08-01 | .02 | .24 |
| 71-12-31 TO 72-01-31 | .22 | .80 | 72-08-01 TO 72-09-03 | .02 | .60 |
| 72-01-31 TO 72-02-29 | .07 | .76 | 72-09-03 TO 72-10-03 | .02 | .00 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPI-TATION | CAL-CIUM (CA) (MG/L) | MAGNE-SIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 09-04-73 TO 11-15-73 | 3.57 | 3.0 | .3 | .5 | .1 | 2 | 6.6 |
| 11-15-73 TO 12-12-73 | 2.58 | 2.5 | .2 | .5 | .2 | 0 | 5.0 |
| 12-12-73 TO 01-03-74 | 5.15 | .8 | .1 | .2 | .1 | 0 | 2.2 |
| 01-03-74 TO 02-06-74 | 2.25 | 8.0 | .6 | 3.2 | 1.0 | 16 | 22 |
| 02-06-74 TO 03-01-74 | 1.85 | 4.0 | .3 | 1.6 | .1 | 5 | 8.0 |
| 03-01-74 TO 03-31-74 | 3.10 | 5.5 | .6 | 1.3 | .2 | 4 | 8.8 |
| 03-31-74 TO 05-14-74 | 5.54 | 2.2 | .1 | .2 | .0 | 5 | 4.1 |
| 05-14-74 TO 06-06-74 | 1.26 | 4.2 | .6 | .5 | .5 | 4 | 8.7 |
| 06-06-74 TO 07-02-74 | 3.08 | 2.3 | .3 | .0 | .1 | 2 | 6.8 |
| 07-02-74 TO 08-05-74 | 5.29 | 1.0 | .3 | 1.0 | 1.0 | 2 | 6.7 |
| 08-05-74 TO 09-04-74 | 4.70 | .8 | .1 | .0 | 2.0 | 0 | 3.7 |
| 09-04-74 TO 10-01-74 | 3.75 | 1.8 | .2 | 1.5 | 1.2 | 1 | 8.1 |

| PERIOD OF COLLECTION | CHLO-RIDE (CL) (MG/L) | FLUO-RIDE (F) (MG/L) | NIT-RITE+ NIT-RATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOS-PHO-ROUS (P) (MG/L) | SPECI-FIC COND-UCTANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 09-04-73 TO 11-15-73 | 1.0 | -- | .01 | .05 | -- | 26 | 5.8 |
| 11-15-73 TO 12-12-73 | 1.1 | -- | .29 | .11 | -- | 22 | 5.9 |
| 12-12-73 TO 01-03-74 | .5 | -- | .11 | .03 | .02 | 11 | 5.1 |
| 01-03-74 TO 02-06-74 | 6.0 | -- | .89 | .34 | -- | 109 | 6.5 |
| 02-06-74 TO 03-01-74 | 2.7 | -- | .64 | .08 | -- | 38 | 6.0 |
| 03-01-74 TO 03-31-74 | 5.2 | -- | .66 | .24 | -- | 46 | 6.2 |
| 03-31-74 TO 05-14-74 | .2 | .1 | .03 | .04 | .02 | 19 | 6.4 |
| 05-14-74 TO 06-06-74 | 1.0 | .1 | .42 | .03 | .01 | 43 | 6.7 |
| 06-06-74 TO 07-02-74 | .2 | .1 | .07 | .04 | .02 | 25 | 5.8 |
| 07-02-74 TO 08-05-74 | 1.1 | .1 | .01 | .62 | .22 | 23 | 5.4 |
| 08-05-74 TO 09-04-74 | 1.3 | .3 | .40 | .11 | .00 | 33 | 4.3 |
| 09-04-74 TO 10-01-74 | 2.3 | .0 | .35 | .36 | .09 | 38 | 6.2 |

## HUDSON RIVER BASIN

## AT HINCKLEY, N.Y.

**LOCATION.**--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service Station at Hinckley Dam on West Canada Creek on Cody Road in Hinckley.

**RECORDS AVAILABLE.**--Chemical analyses: August 1965 to September 1974 (monthly composite).

**EQUIPMENT.**--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

**REMARKS.**--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

**REVISIONS.**--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|
| 71-09-30 TO 71-10-31 | 0.12 | 0.25 |
| 71-10-31 TO 71-11-30 | .29 | .64 |
| 71-11-30 TO 71-12-31 | .62 | 1.14 |
| 71-12-31 TO 72-01-31 | .34 | .58 |
| 72-01-31 TO 72-02-29 | .41 | 1.10 |
| 72-02-29 TO 72-03-31 | .23 | .83 |
| 72-03-31 TO 72-04-30 | 0.05 | 0.55 |
| 72-04-30 TO 72-06-01 | .10 | .37 |
| 72-06-01 TO 72-07-01 | .11 | .15 |
| 72-07-01 TO 72-08-01 | .04 | .15 |
| 72-08-01 TO 72-09-01 | .00 | .01 |
| 72-09-01 TO 72-09-30 | .01 | .06 |

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPITATION | CALCIUM (CA) (MG/L) | MAGNESIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 09-30-73 TO 11-01-73 | 3.75 | .7 | .1 | .3 | .1 | 0 | 3.9 |
| 11-01-73 TO 12-01-73 | 6.44 | .5 | .1 | .7 | .1 | 0 | 2.4 |
| 12-01-73 TO 12-31-73 | 7.77 | .4 | .1 | .1 | .2 | 0 | .6 |
| 12-31-73 TO 02-01-74 | 3.86 | .3 | .1 | .0 | .1 | 0 | 3.3 |
| 02-01-74 TO 02-28-74 | 3.10 | 1.0 | .2 | .1 | .2 | 0 | 3.0 |
| 02-28-74 TO 04-01-74 | 4.39 | .8 | .1 | .2 | .1 | 0 | 3.3 |
| 04-01-74 TO 04-30-74 | 2.96 | -- | -- | -- | -- | 0 | 5.6 |
| 04-30-74 TO 05-31-74 | 7.33 | .6 | .1 | .0 | .1 | 0 | 3.9 |
| 05-31-74 TO 07-01-74 | 4.00 | .5 | .0 | .1 | .2 | 0 | 5.2 |
| 07-01-74 TO 07-31-74 | 5.27 | .5 | .0 | .3 | .0 | 0 | 6.3 |
| 07-31-74 TO 08-31-74 | 4.06 | 2.9 | .5 | .0 | .0 | 0 | 5.0 |
| 08-31-74 TO 10-01-74 | 6.30 | .5 | .1 | .0 | .0 | 0 | 2.0 |

| PERIOD OF COLLECTION | CHLORIDE (CL) (MG/L) | FLUORIDE (F) (MG/L) | NITRITE+ NITRATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOSPHOROUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 09-30-73 TO 11-01-73 | .5 | -- | .08 | .13 | -- | 15 | 4.7 |
| 11-01-73 TO 12-01-73 | .3 | -- | .48 | .10 | -- | 29 | 4.1 |
| 12-01-73 TO 12-31-73 | .2 | -- | .09 | --- | .01 | 6 | 5.3 |
| 12-31-73 TO 02-01-74 | .9 | -- | .86 | .35 | -- | 44 | 4.0 |
| 02-01-74 TO 02-28-74 | .7 | -- | .91 | .30 | -- | 31 | 4.1 |
| 02-28-74 TO 04-01-74 | 3.4 | -- | .64 | .25 | -- | 34 | 4.2 |
| 04-01-74 TO 04-30-74 | .6 | .1 | .68 | --- | .01 | 39 | 4.0 |
| 04-30-74 TO 05-31-74 | .2 | -- | .57 | .02 | -- | 42 | 4.0 |
| 05-31-74 TO 07-01-74 | .3 | -- | .20 | .01 | .01 | 36 | 4.1 |
| 07-01-74 TO 07-31-74 | .9 | -- | .11 | .03 | .01 | 40 | 3.9 |
| 07-31-74 TO 08-31-74 | .4 | -- | .33 | .11 | .01 | 33 | 4.2 |
| 08-31-74 TO 10-01-74 | .2 | -- | .08 | .05 | .01 | 34 | 4.2 |

# CHEMICAL QUALITY OF PRECIPITATION

## SUSQUEHANNA RIVER BASIN

## NEAR ATHENS, PA.

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service Station Milan 1N, 300 feet west of U.S. Highways 220 and 309, 0.6 mi (1.0 km) west of the mouth of the Chemung River, 2.0 mi (3.2 km) south of Athens, and 5.1 mi (8.2 km) south of the New York-Pennsylvania state line.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) | Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|---|---|---|
| 71-10-02 TO 71-11-02 | 0.06 | 0.00 | 72-05-04 TO 72-05-31 | 0.03 | 0.20 |
| 71-11-02 TO 71-12-01 | .84 | .88 | 72-05-31 TO 72-06-30 | .11 | .10 |
| 71-12-01 TO 71-12-31 | .84 | .37 | 72-06-30 TO 72-08-01 | .20 | .60 |
| 71-12-31 TO 72-02-02 | 3.02 | 1.30 | 72-08-01 TO 72-09-02 | .17 | .87 |
| 72-02-02 TO 72-03-03 | 1.53 | 1.00 | 72-09-02 TO 72-10-01 | .03 | .00 |
| 72-04-01 TO 72-05-04 | .40 | 1.05 | | | |

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPITATION | CALCIUM (CA) (MG/L) | MAGNESIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-02-73 | -- | 1.0 | .1 | .2 | .1 | 0 | 5.0 |
| 11-02-73 TO 12-01-73 | 1.34 | .7 | .1 | .7 | .2 | 0 | 5.0 |
| 12-01-73 TO 01-01-74 | 4.52 | .6 | .1 | .4 | .2 | 0 | 3.3 |
| 01-01-74 TO 02-04-74 | -- | 1.2 | .2 | .9 | .8 | 0 | 9.5 |
| 02-04-74 TO 03-02-74 | 1.35 | 2.0 | .3 | 1.1 | 1.2 | 0 | 16 |
| 03-02-74 TO 04-03-74 | -- | 1.7 | .2 | .5 | .7 | 0 | 7.1 |
| 04-03-74 TO 05-02-74 | -- | 1.5 | .2 | .3 | .2 | 0 | 6.1 |
| 05-02-74 TO 06-01-74 | -- | 2.2 | .4 | .4 | .4 | 0 | 12 |
| 06-01-74 TO 07-01-74 | -- | .7 | .1 | .5 | .4 | 0 | 8.0 |
| 07-01-74 TO 07-31-74 | -- | 3.5 | .6 | .3 | .0 | 3 | 12 |
| 07-31-74 TO 08-31-74 | 2.24 | 1.0 | .2 | .1 | .1 | 0 | 8.6 |
| 08-31-74 TO 09-30-74 | -- | 1.0 | .1 | .0 | .0 | 0 | 7.9 |

| PERIOD OF COLLECTION | CHLORIDE (CL) (MG/L) | FLUORIDE (F) (MG/L) | NITRITE+NITRATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOSPHOROUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-02-73 | .5 | -- | .49 | .13 | -- | 33 | 4.3 |
| 11-02-73 TO 12-01-73 | .5 | -- | .78 | 1.10 | -- | 38 | 4.2 |
| 12-01-73 TO 01-01-74 | .6 | -- | .45 | .80 | .01 | 23 | 4.6 |
| 01-01-74 TO 02-04-74 | 1.7 | -- | .88 | 2.00 | -- | 42 | 4.7 |
| 02-04-74 TO 03-02-74 | 1.2 | -- | 1.00 | 2.10 | -- | 75 | 4.1 |
| 03-02-74 TO 04-03-74 | 1.3 | -- | .79 | 1.80 | -- | 36 | 5.0 |
| 04-03-74 TO 05-02-74 | .6 | .1 | .53 | .24 | .04 | 40 | 4.2 |
| 05-02-74 TO 06-01-74 | 1.2 | .2 | 1.50 | .75 | .03 | 95 | 3.9 |
| 06-01-74 TO 07-01-74 | 1.8 | .0 | .61 | 1.10 | .06 | 43 | 4.2 |
| 07-01-74 TO 07-31-74 | 2.8 | .1 | .80 | .83 | .02 | 56 | 4.7 |
| 07-31-74 TO 08-31-74 | 1.5 | .3 | .83 | .66 | .00 | 64 | 4.0 |
| 08-31-74 TO 09-30-74 | .5 | .1 | .73 | .63 | .02 | 57 | 4.1 |

# CHEMICAL QUALITY OF PRECIPITATION

## ALLEGHENY RIVER BASIN

## AT ALLEGANY STATE PARK, N.Y.

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service Station in Allegany State Park, 100 feet west of Park Administration Building, 300 feet west of Park Highway 1 and 6.0 mi (9.7 km) south of Salamanca.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) | Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|---|---|---|
| 71-10-01 TO 71-11-01 | 0.16 | 0.43 | 72-04-01 TO 72-05-01 | 6.20 | 7.17 |
| 71-11-01 TO 71-12-01 | .51 | .85 | 72-05-01 TO 72-06-01 | .40 | .95 |
| 71-12-01 TO 72-01-01 | .70 | .70 | 72-06-01 TO 72-07-01 | .06 | .14 |
| 72-02-01 TO 72-02-29 | .80 | 2.07 | 72-07-01 TO 72-08-01 | .04 | .80 |
| 72-03-01 TO 72-04-01 | 1.58 | 3.76 | 72-08-01 TO 72-09-01 | 3.80 | .63 |

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPITATION | CALCIUM (CA) (MG/L) | MAGNESIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-01-73 | 5.06 | .5 | .1 | .2 | .1 | 0 | 4.5 |
| 11-01-73 TO 12-01-73 | 3.12 | 1.0 | .2 | .7 | .3 | 0 | 4.8 |
| 12-01-73 TO 01-01-74 | 3.48 | .3 | .1 | .1 | .1 | 0 | 2.8 |
| 01-01-74 TO 02-01-74 | 2.03 | .5 | .2 | .0 | .1 | 0 | 5.2 |
| 02-01-74 TO 03-01-74 | 2.19 | 1.2 | .2 | .2 | .1 | 0 | 8.3 |
| 03-01-74 TO 04-01-74 | 5.32 | .8 | .1 | .1 | .1 | 0 | 4.7 |
| 04-01-74 TO 05-01-74 | 4.12 | 1.0 | .3 | .2 | .2 | 0 | 5.0 |
| 05-01-74 TO 05-31-74 | 5.19 | .7 | .2 | .1 | .5 | 0 | 7.0 |
| 05-31-74 TO 07-01-74 | 5.01 | .3 | .0 | .0 | .2 | 0 | 5.6 |
| 07-01-74 TO 08-01-74 | 3.25 | .5 | .1 | .0 | .0 | 0 | 7.4 |
| 08-01-74 TO 09-30-74 | 11.38 | 6.5 | 2.1 | .0 | .0 | 0 | 3.4 |

| PERIOD OF COLLECTION | CHLORIDE (CL) (MG/L) | FLUORIDE (F) (MG/L) | NITRITE+NITRATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOSPHOROUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 11-01-73 | .0 | -- | .55 | .22 | -- | 42 | 4.1 |
| 11-01-73 TO 12-01-73 | .6 | -- | .75 | .67 | -- | 39 | 4.2 |
| 12-01-73 TO 01-01-74 | .1 | -- | .47 | .16 | .00 | 13 | 4.2 |
| 01-01-74 TO 02-01-74 | .3 | -- | .61 | .19 | -- | 41 | 4.1 |
| 02-01-74 TO 03-01-74 | 1.5 | -- | .76 | .09 | -- | 77 | 3.7 |
| 03-01-74 TO 04-01-74 | .2 | -- | .59 | .11 | -- | 38 | 4.1 |
| 04-01-74 TO 05-01-74 | .4 | .1 | .60 | .14 | .02 | 39 | 6.5 |
| 05-01-74 TO 05-31-74 | .4 | .1 | .51 | .09 | .04 | 54 | 4.0 |
| 05-31-74 TO 07-01-74 | .3 | .1 | .39 | .09 | .02 | 35 | 4.1 |
| 07-01-74 TO 08-01-74 | .2 | -- | .00 | .26 | .01 | 71 | - |
| 08-01-74 TO 09-30-74 | 1.2 | .1 | .36 | .04 | .01 | 45 | 4.0 |

## LAKE ONTARIO BASIN

## AT MAYS POINT, N.Y.

LOCATION.—Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service Station Mays Point Lock 25, at Erie (Barge) Canal and State Highway 89 and 6.2 mi (10.0 km) south of Savannah.

RECORDS AVAILABLE.—Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.—The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.—Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.—Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) | Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|---|---|---|
| 71-10-01 TO 71-11-01 | 0.14 | 0.00 | 72-03-31 TO 72-05-01 | 0.24 | 1.00 |
| 71-11-01 TO 71-11-30 | .26 | .62 | 72-05-01 TO 72-05-31 | .12 | .60 |
| 71-11-30 TO 71-12-31 | .32 | .64 | 72-05-31 TO 72-07-02 | .03 | .15 |
| 71-12-31 TO 72-01-31 | 2.25 | .99 | 72-07-02 TO 72-07-31 | .06 | .36 |
| 72-01-31 TO 72-02-29 | .25 | 1.16 | 72-07-31 TO 72-08-31 | .01 | .65 |
| 72-02-29 TO 72-03-31 | .25 | 1.23 | 72-08-31 TO 72-09-30 | .25 | .52 |

### CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPITATION | CALCIUM (CA) (MG/L) | MAGNESIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTASSIUM (K) (MG/L) | BICARBONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 10-31-73 | 2.57 | 3.7 | 1.0 | .5 | .9 | 9 | 8.0 |
| 10-31-73 TO 11-30-73 | 2.94 | .7 | .1 | .7 | .2 | 0 | 4.1 |
| 11-30-73 TO 01-02-74 | 4.06 | .5 | .1 | .1 | .1 | 0 | 2.0 |
| 01-02-74 TO 02-01-74 | 2.02 | 2.4 | .2 | .5 | .2 | 0 | 7.2 |
| 02-01-74 TO 02-28-74 | 1.72 | 1.5 | .2 | .7 | .2 | 0 | 4.0 |
| 02-28-74 TO 04-01-74 | 2.92 | 1.6 | .2 | .2 | .2 | 0 | 3.3 |
| 04-01-74 TO 04-30-74 | 2.44 | -- | -- | -- | -- | 0 | 9.8 |
| 04-30-74 TO 05-31-74 | 4.00 | 1.5 | .4 | 12 | 2.1 | 0 | 6.6 |
| 05-31-74 TO 07-01-74 | 4.95 | 2.0 | .2 | .5 | .3 | 0 | 9.0 |
| 07-01-74 TO 07-31-74 | 4.13 | 2.4 | .2 | .0 | .4 | 0 | 5.5 |
| 07-31-74 TO 09-03-74 | 4.52 | 2.2 | .3 | .2 | .4 | 0 | 7.7 |
| 09-03-74 TO 09-30-74 | 2.68 | 6.5 | 1.8 | .0 | .0 | 0 | 4.8 |

| PERIOD OF COLLECTION | CHLORIDE (CL) (MG/L) | FLUORIDE (F) (MG/L) | NITRITE+NITRATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOSPHOROUS (P) (MG/L) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 10-01-73 TO 10-31-73 | 1.5 | -- | .28 | .14 | -- | 35 | 6.1 |
| 10-31-73 TO 11-30-73 | .8 | -- | .78 | .21 | -- | 45 | 4.0 |
| 11-30-73 TO 01-02-74 | .4 | -- | .53 | .10 | -- | 23 | 4.2 |
| 01-02-74 TO 02-01-74 | 1.2 | -- | 1.30 | .41 | -- | 52 | 4.1 |
| 02-01-74 TO 02-28-74 | 1.4 | -- | .95 | .12 | -- | 35 | 4.2 |
| 02-28-74 TO 04-01-74 | 3.7 | -- | 1.00 | .16 | -- | 32 | 4.4 |
| 04-01-74 TO 04-30-74 | 6.6 | .2 | .43 | --- | .04 | 53 | 4.1 |
| 04-30-74 TO 05-31-74 | 21.0 | -- | .67 | .02 | -- | 132 | 4.0 |
| 05-31-74 TO 07-01-74 | .8 | -- | .72 | .17 | .02 | 56 | 3.9 |
| 07-01-74 TO 07-31-74 | .8 | -- | .71 | .42 | .02 | 54 | 4.1 |
| 07-31-74 TO 09-03-74 | 1.5 | -- | .73 | .35 | .02 | 52 | 4.2 |
| 09-03-74 TO 09-30-74 | 1.5 | -- | .52 | .13 | .02 | 33 | 4.4 |

## ST. LAWRENCE RIVER BASIN

## NEAR CANTON, N.Y.

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service Station, Canton 4SE, on the Canton State University Farm on State Highway 68, 2.5 mi (4.0 km) southeast of U.S. Highway 11 and Canton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

| Period of Collection | Ammonia as N (MG/L) | Nitrate as N (MG/L) |
|---|---|---|
| 71-10-02 TO 71-12-02 | 0.83 | 0.95 |
| 71-12-02 TO 72-02-10 | 1.12 | 1.60 |
| 72-02-10 TO 72-06-05 | .11 | .92 |
| 72-06-05 TO 72-07-05 | .12 | .01 |
| 72-07-05 TO 72-08-10 | .03 | .02 |

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| PERIOD OF COLLECTION | INCHES OF PRECIPI-TATION | CAL-CIUM (CA) (MG/L) | MAGNE-SIUM (MG) (MG/L) | SODIUM (NA) (MG/L) | POTAS-SIUM (K) (MG/L) | BICAR-BONATE (HCO3) (MG/L) | SULFATE (SO4) (MG/L) |
|---|---|---|---|---|---|---|---|
| 10-07-73 TO 11-12-73 | 1.33 | 2.5 | .5 | 2.5 | .5 | 2 | 8.1 |
| 11-12-73 TO 12-07-73 | 2.72 | .9 | .2 | .1 | .1 | 6 | 3.1 |
| 12-07-73 TO 01-08-74 | 3.07 | .0 | .1 | .5 | .3 | 0 | 1.3 |
| 01-08-74 TO 02-06-74 | 2.21 | .4 | .2 | .0 | .2 | 0 | 6.6 |
| 02-06-74 TO 03-06-74 | 2.31 | 1.0 | .2 | .1 | .2 | 0 | 6.1 |
| 03-06-74 TO 04-10-74 | 3.31 | 1.0 | .4 | .2 | .2 | 0 | 3.8 |
| 04-10-74 TO 05-09-74 | 2.08 | 1.4 | .4 | .2 | 12 | 0 | 7.2 |
| 05-09-74 TO 07-01-74 | 6.80 | 2.5 | .2 | .1 | .0 | 3 | 7.4 |
| 07-01-74 TO 10-03-74 | 12.27 | 1.0 | .3 | .1 | .0 | 0 | 4.8 |

| PERIOD OF COLLECTION | CHLO-RIDE (CL) (MG/L) | FLUO-RIDE (F) (MG/L) | NIT-RITE+NIT-RATE AS N (MG/L) | AMMONIA AS N (MG/L) | PHOS-PHO-ROUS (P) (MG/L) | SPECI-FIC COND-UCTANCE (MICRO-MHOS) | PH (UNITS) |
|---|---|---|---|---|---|---|---|
| 10-07-73 TO 11-12-73 | .9 | -- | .69 | .27 | -- | 39 | 6.0 |
| 11-12-73 TO 12-07-73 | .7 | -- | 1.10 | .50 | -- | 36 | 4.3 |
| 12-07-73 TO 01-08-74 | .7 | -- | .42 | .34 | -- | 17 | 4.7 |
| 01-08-74 TO 02-06-74 | .5 | -- | .88 | .00 | -- | 34 | 4.2 |
| 02-06-74 TO 03-06-74 | .4 | -- | .88 | .57 | -- | 46 | 4.0 |
| 03-06-74 TO 04-10-74 | .3 | -- | .81 | .45 | -- | 24 | 4.6 |
| 04-10-74 TO 05-09-74 | 9.7 | .1 | 1.20 | .75 | .01 | 83 | 4.6 |
| 05-09-74 TO 07-01-74 | .9 | .0 | .08 | .05 | .03 | 25 | 6.3 |
| 07-01-74 TO 10-03-74 | .0 | .0 | .11 | .07 | .01 | 21 | 4.4 |

### Table 5.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1974 WATER YEAR

USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
WQS - New York State Water Quality Surveillance
EPA - Environmental Protection Agency

| Identification Number | | Station | Latitude<br>Longitude |
|---|---|---|---|
| USGS<br>OWDC | WQS<br>EPA | | |
| 01336600<br>68068 | 12 0550 | Mohawk River (Canal Section) at Rome | 43°11'58"<br>75°23'24" |
| 01337450 | 12 1223 | Oriskany Creek at Walesville | 43°06'56"<br>73°21'59" |
| 01338600<br>68085 | 12 0452 | Mohawk River above Whitesboro | 43°08'23"<br>75°18'12" |
| 01341150 | 12 0515 | Mohawk River at Lealand Avenue at Utica | 43°06'28"<br>75°12'41" |
| 01342602<br>61406 | 12 0500 | Mohawk River near Utica | 43°05'26"<br>75°09'28" |
| 01342755<br>68083 | 12 0450 | Mohawk River at Herkimer | 43°01'01"<br>74°59'48" |
| 01346000<br>68094 | 12 1411 | West Canada Creek at East Bridge | 43°04'25"<br>74°59'24" |
| 01357995<br>67597 | 13 0007 | Hudson River at Troy | 42°45'05"<br>73°41'10" |
| 01496380<br>68109 | 06 P069 | Canadarago Lake near Richfield Springs | 42°49'16"<br>75°00'41" |
| 01502632<br>68108 | 06 0045 | Susquehanna River at Bainbridge | 42°17'28"<br>75°28'36" |
| 01505000<br>68106 | 06 1022 | Chenango River at Sherburne | 42°40'43"<br>75°30'39" |
| 01505580<br>68107 | 06 1021 | Chenango River near Oxford | 42°28'21"<br>75°32'44" |
| 01509030<br>68105 | 06 2041 | Tioughnioga River at Blodgett Mills | 42°34'05"<br>76°07'18" |
| 01513500<br>61438 | 06 0006 | Susquehanna River at Vestal | 42°05'31"<br>76°03'21" |
| 01513831<br>73154 | 06 0020 | Susquehanna River at Owego | 42°06'01"<br>76°15'39" |
| 01514937<br>61440 | 06 0015 | Susquehanna River at Smithboro | 42°01'41"<br>76°23'07" |
| 01520500<br>61424 | 05 1120 A | Tioga Creek at Lindley | 42°01'43"<br>77°07'55" |
| 01524525<br>68110 | 05 2004 | Canisteo River below Hornell | 42°17'58"<br>77°39'03" |
| 01529552<br>61386 | 05 1080 | Cohocton River at Campbell | 42°13'37"<br>77°11'56" |
| 01529950<br>68111 | 05 0005 | Chemung River at Corning | 42°08'51"<br>77°03'42" |
| 01530310<br>61415 | 05 0003 | Chemung River at Fitch Bridge | 42°04'57"<br>76°52'01" |
| 01531000<br>61439 | 05 0001 | Chemung River at Chemung | 42°00'10"<br>76°38'06" |
| 03010844<br>77390 | 02 0005 | Allegheny River at Allegany | 42°05'26"<br>78°30'09" |
| 03010870<br>68790 | 02 0003 | Allegheny River at Vandalia | 42°05'38"<br>78°34'27" |
| 03010958<br>61411 | 02 1036 | Tunungwant Creek at Tuna Creek, Pa. | 41°59'47"<br>78°37'21" |
| 03011020<br>68119 | 02 0002 | Allegheny River at Salamanca | 42°09'24"<br>78°42'57" |
| 03014500<br>68093 | 02 3061 | Chadakoin River at Falconer | 42°06'44"<br>79°14'19" |
| 03014590 | 02 2013 | Cassadaga Creek near Jamestown | 42°05'48"<br>79°09'25" |
| 03014600<br>68788 | 02 1011 | Conewango Creek at Frewsburg | 42°04'11"<br>79°09'25" |
| 03014670<br>61410 | 02 1010 | Conewango Creek at Frewsburg | 42°01'23"<br>79°09'35" |
| 04213378<br>77387 | 01 1040 | Canadaway Creek at Dunkirk | 42°28'32"<br>79°21'56" |
| 04213450<br>68120 | 01 2002 | Buttermilk Creek near Springville | 42°28'50"<br>78°40'32" |
| 04213500<br>61409 | 01 1070 | Cattaraugus Creek at Gowanda | 42°28'05"<br>78°56'30" |
| 04214020<br>77388 | 01 1030 | Cattaraugus Creek at Irving | 42°34'12"<br>79°06'45" |
| 04214240<br>77389 | 01 1020 | Eighteenmile Creek at Highland-on-the-Lake | 42°42'44"<br>78°58'00" |
| 04215790<br>68121 | 01 1006 | Buffalo River at Ohio Street at Buffalo | 42°51'42"<br>78°52'04" |
| 04216060<br>68122 | 01 0004 | Niagara River at Bird Island at Buffalo | 42°54'53"<br>78°54'12" |
| 04216080<br>68125 | 01 C005 | Black Rock Canal at Buffalo | 42°54'54"<br>78°54'10" |
| 04216225<br>73650 | 01 0007 | Niagara River at Tonawanda Water Intake | 42°57'02"<br>78°55'15" |
| 04216230 | 01 0008 | Niagara River at Tonawanda Water Treatment Plant | 42°57'50"<br>78°55'30" |
| 04218595<br>68124 | 01 C900 | Erie (Barge) Canal near Pendleton | 43°06'57"<br>78°44'13" |
| 04218705<br>68113 | 04 C901 | Erie (Barge) Canal at State Highway 383 at Rochester | 43°07'23"<br>77°38'45" |
| 04218760<br>68112 | 04 C902 | Erie (Barge) Canal at West Brighton | 43°06'38"<br>77°37'58" |
| 04219355<br>68123 | 01 0002 | Niagara River (Tonawanda Channel) at Niagara Falls | 43°04'28"<br>79°00'19" |
| 04219640<br>61408 | 01 0001 A | Niagara River (Lake Ontario) at Fort Niagara | 43°18'10"<br>79°03'52" |
| 04220284<br>61431 | 03 L002 | Lake Ontario at MCWA Intake at Rochester | 43°16'45"<br>77°37'01" |
| 04220437 | 04 0076 | Genesee River above Dyke Creek at Wellsville | 42°06'25"<br>77°56'07" |
| 04220438<br>61414 | 04 0075 | Genesee River above Wellsville | 42°06'40"<br>77°56'30" |
| 04227000<br>68114 | 04 1008 | Canaseraga Creek at Shakers Crossing | 42°44'12"<br>77°50'28" |
| 04227510<br>61418 | 04 0065 | Genesee River at Geneseo | 42°46'37"<br>77°50'31" |
| 04228500<br>68115 | 04 0006 | Genesee River at Avon | 42°55'04"<br>77°45'27" |
| 04230055<br>61419 | 04 1050 | Honeoye Creek at West Rush | 42°58'40"<br>77°41'52" |
| 04230650<br>61413 | 04 002) | Genesee River at Ballantyne Bridge near Mortimer | 43°05'31"<br>77°40'52" |
| 04231500<br>68116 | 04 0004 | Genesee River at State Highway 47 at Rochester | 43°07'28"<br>77°37'56" |
| 04232000<br>68117 | 04 0003 A | Genesee River at Rochester | 43°10'50"<br>77°37'40" |
| 04232006<br>68118 | 04 0001 A | Genesee River at Charlotte Docks, at Rochester | 43°13'26"<br>77°36'59" |

A Additional water-quality data in this report.

### Table 5.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1974 WATER YEAR - Continued

| Identification Number USGS<br>OWDC | Identification Number WQS<br>EPA | Station | Latitude<br>Longitude |
|---|---|---|---|
| 04232158<br>61429 | 03 L840 | Lake Ontario near Oswego | 43°28'17"<br>76°32'59" |
| 0423249907<br>68103 | 07 P108 | Seneca Lake at Salt Point | 42°24'25"<br>76°53'10" |
| 0423249988<br>61430 | 07 P106 | Seneca Lake at Geneva Water Plant near Geneva | 42°48'52"<br>76°57'24" |
| 04232651<br>73653 | 07 1040 | Seneca River at Waterloo | 42°54'05"<br>76°51'46" |
| 04232707<br>73654 | 07 1060<br>354301 | Seneca River (Cayuga and Seneca Canal) at Seneca Falls | 42°54'18"<br>76°49'34" |
| 04232723<br>73655 | 07 P080 | Seneca River (Van Cleef Lake) at Seneca Falls | 42°54'54"<br>76°47'14" |
| 04232730<br>61385 | 07 1090 | Seneca River (Cayuga and Seneca Canal) near Seneca Falls | 42°56'20"<br>76°45'42" |
| 0423406011<br>68104 | 07 P113 | Cayuga Lake at Myers | 42°32'05"<br>76°32'56" |
| 0423406084<br>61433 | 07 P111 | Cayuga Lake near Canoga | 42°50'49"<br>76°43'43" |
| 042340613<br>61448 | 07 1130 | Seneca River (Cayuga and Seneca Canal) at Free Bridge Corners | 42°57'46"<br>76°44'17" |
| 0423454444<br>61383 | 07 P120 | Canandaigua Lake near Canadaigua | 42°50'32"<br>77°16'42" |
| 04235396<br>61382 | 07 P115 | Owasco Lake near Auburn | 42°53'56"<br>76°32'17" |
| 04235730<br>73652 | 07 1150 | Seneca River near Weedsport | 43°04'14"<br>76°33'25" |
| 04237500<br>54102 | 07 1020 A | Seneca River at Baldwinsville | 43°09'24"<br>76°19'58" |
| 04240300<br>68096 | 07 4401 | Ninemile Creek at Syracuse | 43°04'50"<br>76°13'36" |
| 04240500<br>68100 | 07 2400 | Onondaga Lake Outlet at Long Branch | 43°07'01"<br>76°14'44" |
| 04240540<br>68101 | 07 1361 | Seneca River at Belgium | 43°10'15"<br>76°16'06" |
| 04242730<br>68097 | 07 3405 | Fish Creek at Fish Creek Landing | 43°13'16"<br>75°42'06" |
| 04243535<br>68098 | 07 3404 | Oneida Creek at South Bay | 43°09'51"<br>75°44'14" |
| 04245500<br>68099 | 07 3403 | Chittenango Creek at Bridgeport | 43°09'18"<br>75°58'18" |
| 04246000<br>68102 | 07 1231 | Oneida Lake (Oneida River) at Brewerton | 43°14'23"<br>76°08'28" |
| 04247080<br>61446 | 07 0200 | Oswego River at Hinmansville | 43°14'54"<br>76°21'06" |
| 04249000<br>61447 | 07 0180 | Oswego River at Oswego | 43°27'26"<br>76°31'06" |

A Additional water-quality data in this report.

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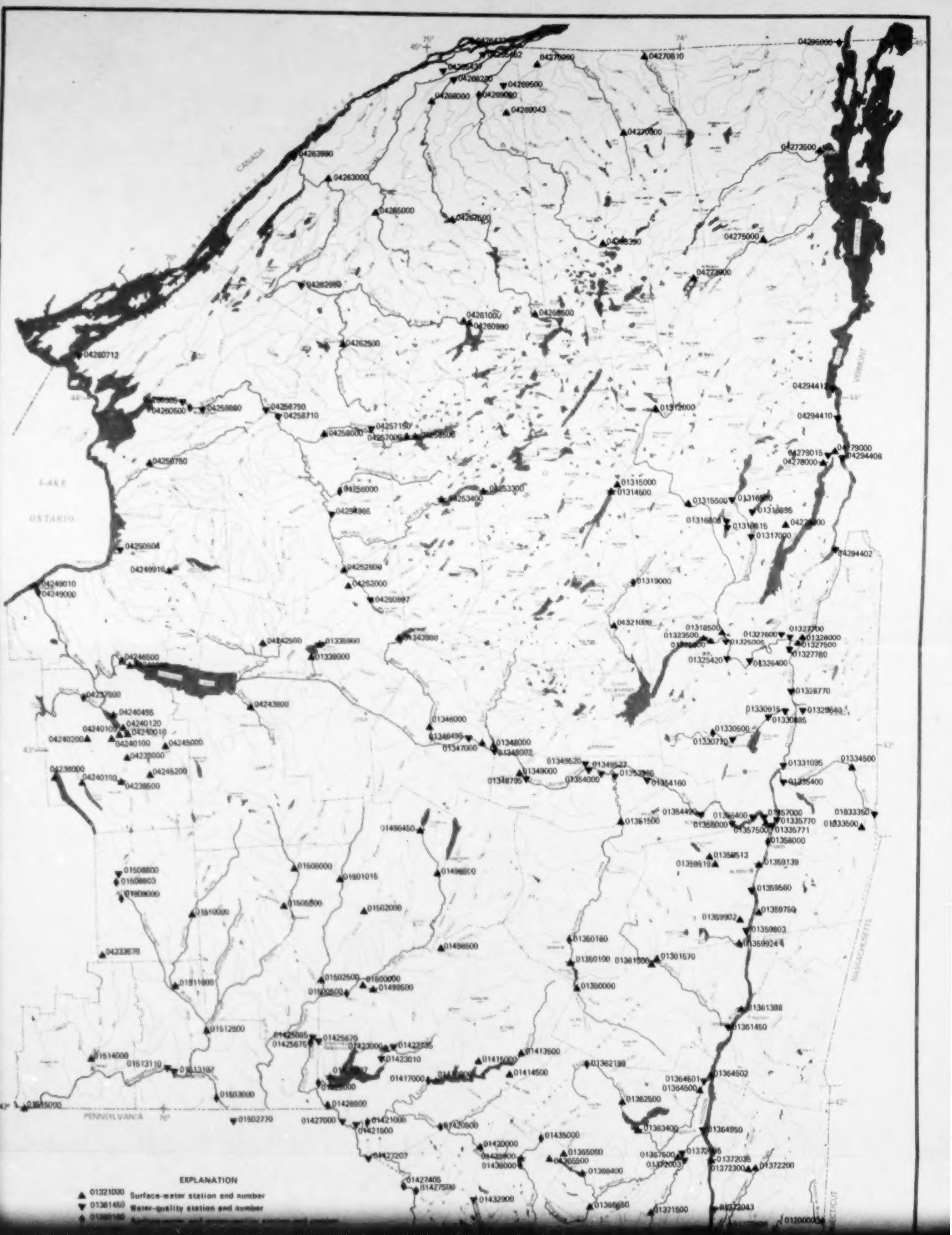

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MASSACHUSETTS
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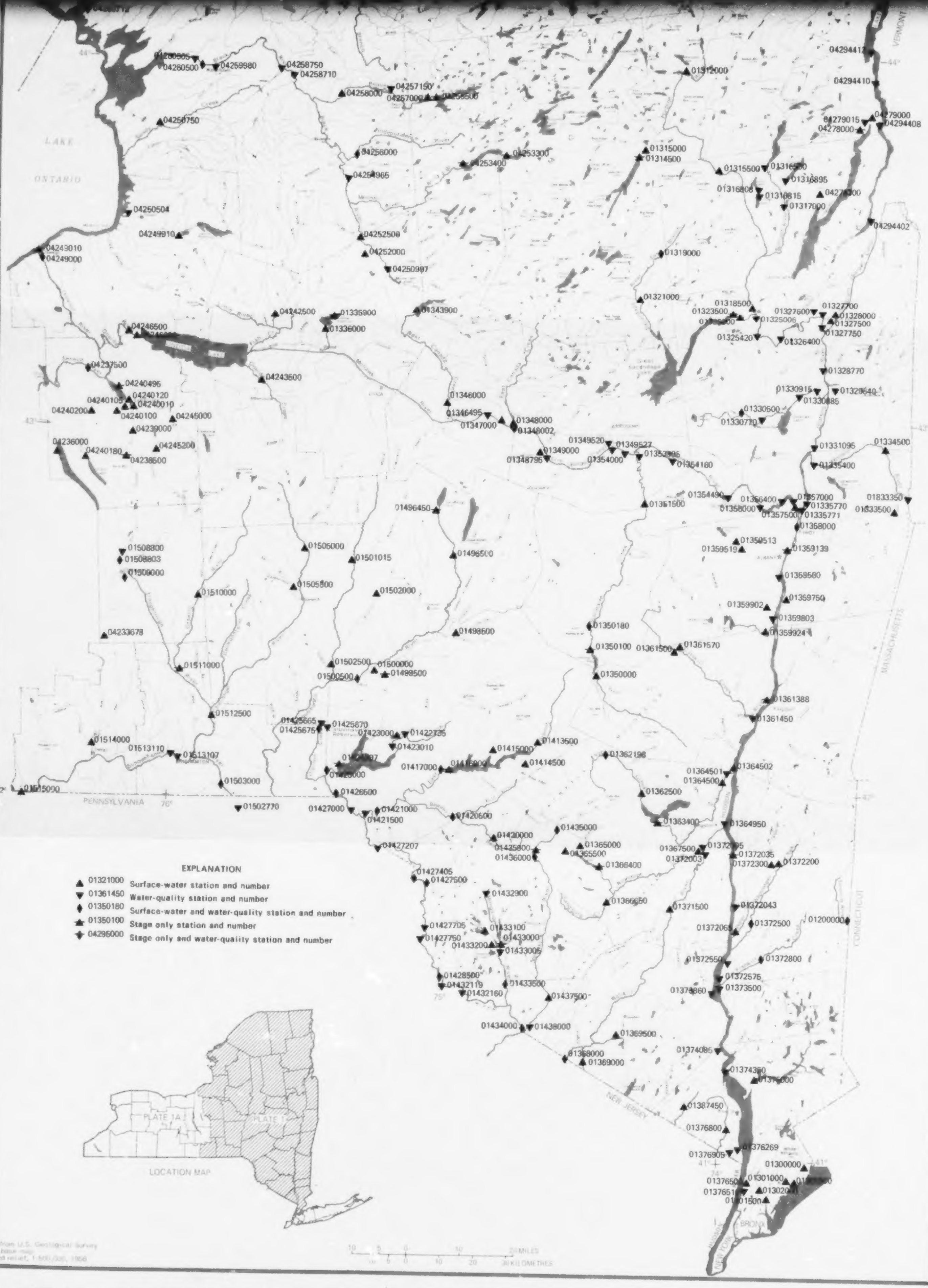
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VERMONT
MASSACHUSETTS
CONNECTICUT
PENNSYLVANIA
NEW JERSEY
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42°
41°
76°
75°
74°
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EXPLANATION
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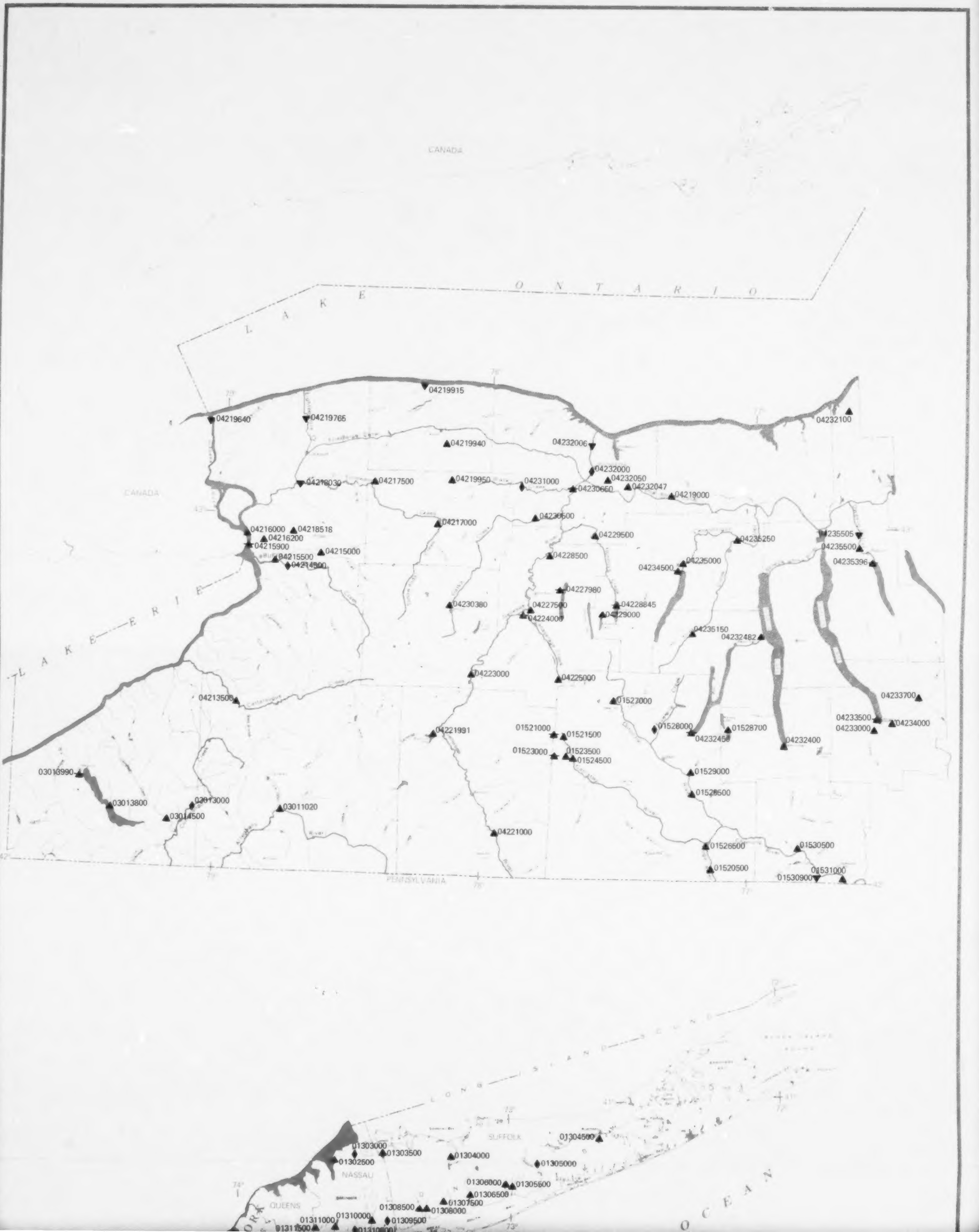
01361450 Water-quality station and number
01350180 Surface-water and water-quality station and number
01350100 Stage only station and number
04295000 Stage only and water-quality station and number
PLATE 1A
PLATE 1
LOCATION MAP
Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956
10 5 0 10 20 MILES
10 5 0 10 20 30 KILOMETRES

PLATE 1.--LOCATION OF SURFACE-WATER STATIONS AND WATER-QUALITY STATIONS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LAKE ERIE
CANADA
PENNSYLVANIA
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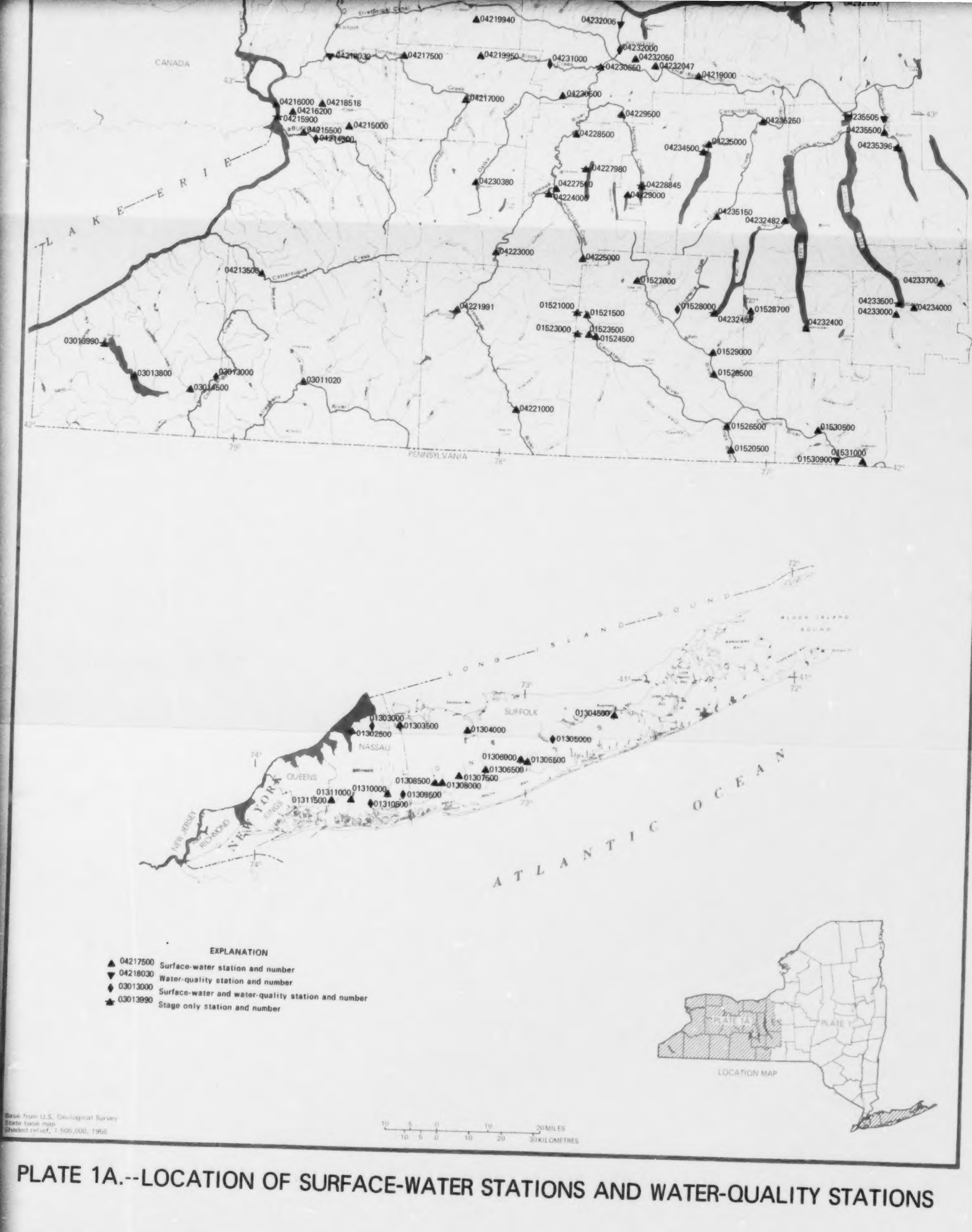
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BLOCK ISLAND SOUND
ATLANTIC OCEAN
PENNSYLVANIA
NEW JERSEY
RICHMOND
NEW YORK
KINGS
QUEENS
NASSAU
SUFFOLK
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EXPLANATION
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04218030 Water-quality station and number
03013000 Surface-water and water-quality station and number
03013990 Stage only station and number
PLATE 1A
PLATE 1
LOCATION MAP
Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956
10 5 0 10 20 MILES
10 5 0 10 20 30 KILOMETRES

PLATE 1A.--LOCATION OF SURFACE-WATER STATIONS AND WATER-QUALITY STATIONS